

CLIMATOLOGICAL DATA FOR JANUARY, 1913.

DISTRICT NO. 5, UPPER MISSISSIPPI VALLEY.

GEO. M. CHAPPEL, District Editor.

GENERAL SUMMARY.

Considered with reference to conditions in different parts of the district, January, 1913, in the upper Mississippi Valley was a month of decided climatological contrasts. In extreme southern Illinois the weather was unusually wet and much milder than in the ordinary January; over the central part of the district mild and pleasant weather for the time of year predominated, while in the north cold but fair and comparatively pleasant conditions were the characteristics. As a whole, however, the month may be classed as mild and open and one of the pleasantest Januaries in recent years.

The principal adverse events were the flood in the Ohio River and an ice storm in Illinois. The latter occurred on the 5th, 6th, and 7th and was prevalent in the central and southern parts of that State. The damage caused was principally to electric services and trees.

In some sections the absence of seasonably cold weather was indicated in the ice situation, the harvest not having begun at the close of the month. After the 15th the ground was generally bare of snow in southern sections, and by the end of the month roads were in excellent shape.

The following table presents in condensed form the leading features of climatological interest for the various parts of the district:

Parts of States within District 5.	Temperature.				Precipitation.					
	Mean.	Depart.	Highest.	Lowest.	Avg.	Depart.	Greatest total.	Least total.	Average snowfall.	Average number of days with precipitation.
North Dakota.....	0.2	-3.2	50	-43	0.43	-0.06	1.00	0.09	4.8	5
Minnesota.....	7.0	-0.1	54	-47	0.33	-0.44	0.96	T.	4.2	4
South Dakota.....	9.2	-2.3	55	-23	0.36	+0.01	0.61	0.10	3.5	4
Wisconsin.....	15.4	+1.5	52	-33	0.90	-0.22	2.35	0.19	9.7	6
Iowa.....	21.0	+2.2	60	-21	0.87	-0.30	2.05	0.06	8.0	5
Missouri.....	34.3	+1.9	63	-9	2.08	-0.04	3.70	0.67	3.1	8
Indiana.....	29.0	+2.9	58	-3	3.46	+0.70	4.57	2.96	6.0	15
Illinois.....	29.4	+4.2	68	-10	3.45	+1.31	11.65	0.38	3.6	10

TEMPERATURE.

A marked difference in temperature existed between the warmest and coldest points in the district—Cairo, Ill., and Pembina, N. Dak. At the former station the average temperature was 40.2° , or 5° above the normal, while at Pembina the average was -9.5° , or 7° below the normal. The weather was colder than usual north of the latitude of St. Paul, Minn., and warmer than usual thence southward. For the district as a whole the mean temperature was 17.2° , or 1.6° higher than the normal.

The first half of the month was considerably colder than the latter half. Low temperatures were practically continuous from the 5th to the 14th, inclusive, the 12th being the coldest day at a large majority of the stations in all parts of the district. The lowest temperature reported was 47° below zero at Bagley, Minn., on the 12th.

Zero temperature occurred at least once during the month throughout the district save over the southeastern end, or south of a line drawn from below Hannibal, Mo., through the Indiana area. A severe cold wave was sweeping over the district on the 31st, but did not reach its greatest severity till the next day. Many stations reported the highest temperature of the month on the 1st, but at the majority of them this occurred on or about the 17th, 25th, or 29th. The highest temperature reported was 68° on the 17th at Cobden, Ill.

PRECIPITATION.

The average precipitation for the whole district was slightly greater than usual, but the excess was due to the exceptionally heavy amounts in extreme southern Illinois. There upwards of 10 inches occurred, Cairo reporting 11.65 inches. At that station the month was the wettest January since 1876. From Cairo northward the amounts diminished sharply over Illinois, less than an inch being reported from the northern part of that State. Except in southern Illinois and the Missouri and Indiana areas the monthly precipitation did not exceed 2 inches save in a few instances. In the North and South Dakota and Minnesota areas no station reported more than an inch. The least amount was a trace at three points in Minnesota. In respect to time the precipitation was well distributed. Rain or snow was of almost daily occurrence somewhere in Illinois.

Snow.—Snow fell throughout the district, but over areas in Illinois and Minnesota the amounts did not exceed a trace. The heaviest falls occurred in Wisconsin, where the average was about 10 inches. Port Edwards, in that State, reported 19 inches, the most for any station in the district.

RIVERS.

The principal event of the month was the flood in the Ohio River, a full account of which will appear in a subsequent number of the Review. Steamboats were running on the upper Illinois River on the 30th, and navigation from St. Louis to points on the lower Mississippi had been resumed, the earliest in years. At Davenport, Iowa, the Mississippi became closed by ice during the 14th, but opened the following day; it became closed again during the night of January 31–February 1. In the streams of the north the ice continued to increase as the month progressed, and at Moorhead, Minn., a thickness of more than 2 feet was reported.

MISCELLANEOUS.

More than the normal amount of sunshine was received, the excess being greatest over the Iowa area where at Des Moines the percentage of the possible amount was 73. The average number of clear days was 12; partly cloudy, 8; cloudy, 11. Northwesterly winds prevailed, except in the south, where they were southerly or southwesterly. The highest velocity reported was 48 miles from the west, on the 17th, at St. Paul, Minn. A slight earthquake shock was noted at Cairo, Ill., on the 29th, between 4 and 5 a. m.

TABLE 1.—Climatological data for January, 1913. District No. 5, Upper Mississippi Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of overcast cloudy days.		
<i>North Dakota.</i>																				
Amenia.	Cass.	954	17	-0.2	-5.5	35	1†	-43	12	43	0.70	+ 0.25	0.20	7.0	7	23	1	7	nw.	C. E. Wood.
Bottineau.	Bottineau.	1,633	21	-6.0	-5.9	32	29	-41	12	47	0.30	- 0.14	0.05	15	10	8	13	nw.	H. F. Steinmeir.	
Bowbells.	Burke.	1,958	1																G. H. Phelps.	
Cando.	Towner.	1,483	12	-4.0	-4.6	38	29	-39*	19	68*	0.09	- 0.31	0.05	3					E. T. Judd.	
Crosby.	Divide.	6	10.3			49	29	-36	12	42	0.10	- 0.10	0.10	1.0	1	12	8	11	H. C. Kaschau.	
Devils Lake.	Ramsey.	1,482	8	-1.4	-1.7	36	28	-32	12	37	0.38	- 0.22	0.16	5.7	9	8	11	U. S. Weather Bureau.		
Donnybrook.	Ward.	1,760	14	0.1	3.5	40*	28	-35	31	41*	0.90	+ 0.55	0.50	9.0	6			C. J. DeVore.		
Dunseith.	Rolette.	17	-6.8	-10.1	28	1	40†	12	36	31	0.09	- 0.37	0.05	0.9	2			C. E. Goodsell.		
Eckman.	Bottineau.	7																Geo. Yenny.		
Edmore.	Ramsey.	1,524	7															M. M. Van Osdell.		
Fessenden.	Wells.	1,610	1	2.1		37	28	-37	12	46	0.36		0.17	3.3	5	14	9	8	G. T. Seymour.	
Forman.	Sargent.	1,249	21	8.6	+ 1.7	39	16†	-30	12	38	0.53	+ 0.02	0.50	3	12	3	16	A. Maltby.		
Grafton.	Walsh.	827	21	-0.6	-2.0	35	2†	-35	13	46	0.35	- 0.23	0.11	5.5	6	16	3	12	A. R. T. Wyllie.	
Granville.	McHenry.	1,504	6	3.6†		42†	28	-26†	31	40†	0.50		0.20	5.0	3			W. A. Christianson.		
Hannah.	Cavalier.	1,563	8															J. Moffatt.		
Hansboro.	Towner.	5	-3.4			35	29	-35	6	44	0.36		0.20	4.2	4	19	3	9	Geo. Dale.	
Hillsboro.	Traill.	901	7	0.6		36	1	-39	12	43	0.50		0.20	8.0	9	15	11	F. E. Mayall.		
Lakota.	Nelson.	1,579	12	-1.6	-0.1	34	29	-39	12	37	0.34	- 0.48	0.16	4.8	7	11	4	nw.	C. R. Pettes.	
Langdon.	Cavalier.	1,615	17															J. Woolner.		
Larimore.	Grand Forks.	1,134	18	-2.1	-5.4	35	28	-33	12	51	0.69	+ 0.19	0.30	12	12	9	10	n.	J. M. Freeman.	
Lisbon.	Ransom.	1,091	9	6.4	+ 1.1	50	1	-33	12	53	0.65	+ 0.08	0.60	6.5	2	15	6	10	W. S. Adams.	
McKinney.	Ransom.	1,640	19	-0.2	-3.5	40	28	-35	6†	70	0.45	+ 0.09	0.30	4.5	3	1	21	N. P. Swenson.		
McLeod.	Wells.	1,605	10	3.2	-0.7	38	29	-40	12	40	0.60	- 0.08	0.25	6.0	5	10	18	Martin Reinhold.		
Manfred.	Trail.	975	17	1.0	-5.6	36	1†	-35	12	41	0.24	- 0.13	0.14	3	18	3	10	P. B. Anderson.		
Minor.	Sargent.	1,097	1															W. C. Gould.		
Minot.	Ward.	1,557	17															H. Ediman.		
Minto.	Walsh.	820	20	-0.64	-2.4	36	29	-33	10	33*	0.13	- 0.35	0.08	3	17	8	6	W. J. Ellison.		
Oriska.	Barnes.	1,270	8	-1.4		36	2†	-36	12	44	0.33		0.13	3.0	4	14	11	6	S. S. Marsh.	
Park River.	Walsh.	998	9	-0.8		37	29	-28	6†	38	0.31		0.08	5	7	11	9	J. J. Taylor.		
Pembina.	Pembina.	789	39	-9.5	-6.8	36	1	-38	12	45	0.40	- 0.19	0.15	4.0	3	13	7	P. J. Prochaska.		
Power.	Richland.	1,020	21	1.0	-3.9	36	1	-35	12	49	1.00	+ 0.45	0.40	10.0	7	17	6	C. W. Shumaker.		
Towner.	McHenry.	1,090	17	9.9	-0.8	44	25	-24	12	45	0.48	- 0.25	0.30	5.0	2	11	15	J. A. Power.		
University.	Grand Forks.	830	21	-1.6	-5.6	34	29	-37	12	42	0.27	- 0.25	0.15	2.7	5	16	6	B. Bagley.		
Washpeton.	Richland.	962	19	12.6	+ 4.6	50	2	-30	12	60	0.28	- 0.15	0.18	2.8	2	16	7	U. S. Weather Bureau.		
Walhalla.	Pembina.	966	6	-1.4		37	28	-30	12	42	0.65		0.30	6.5	4	20	9	Fred E. Smith.		
Westhope.	Bottineau.	7	-3.8			38	28	-39	12	42	0.27		0.20	2.7	4	17	10	Ivanhoe Lee.		
Willow City.	do.	1,471	21	-3.0	-3.9	37	28	-43	12	53	0.60	+ 0.25	0.30	6.0	4	2	22	7	W. A. Meddaugh.	
<i>Minnesota.</i>																			M. A. Ostby.	
Albert Lea.	Freeborn.	1,229	22	15.1	+ 3.1	46	25	-15*	12	37*	0.25	- 0.65	0.15	1.0	2	9	16	6	Edward Carey.	
Alexandria.	Douglas.	1,391	19	5.0	-1.9	40	1	-29	12	43	0.68	+ 0.02	0.25	10.0	11	14	7	10	P. O. Unumb.	
Angus.	Polk.	870	11	-2.8	-4.7	31	1†	-38	12	48	0.24	+ 0.02	0.05	2.4	6	12	7	12	John Nadvornik.	
Bagley.	Clearwater.	7	-3.0			35	1	-47	12	49	0.47		0.37	4.9	2	13	4	Jens Nelson.		
Baudette.	Beltrami.	1,084	3	-0.4		39	17	-35	7†	48	0.57		0.15	5.7	6	17	7	J. A. Gjelhaug.		
Beardsley.	Bigstone.	1,090	17	9.9	-0.8	44	25	-24	12	45	0.48	- 0.25	0.30	5.0	2	11	15	G. L. Fitzgerald.		
Beaulieu.	Mahnomen.	1,200	9															Rev. R. Homer.		
Bemidji.	Beltrami.	1,400	9															C. W. Warfield.		
Bird Island.	Renville.	1,038	23	12.9	+ 3.6	47	25	-18	12	49	0.08		0.14		4	10	16	n.	Dr. F. L. Pufer.	
Brainerd.	Crow Wing.	1,215	7	7.2		42	30	-31	12	52	0.41		0.23		4	24	4	3	Theo. Miller.	
Caledonia.	Houston.	1,179	20	16.9	+ 2.4	47	16	-12	12	41	0.94	- 0.05	0.22	12.5	11	6	5	W. D. Belden.		
Campbell.	Wilkin.	984	7	5.6		40	16	-27	12	55	0.83		0.45	11.0	4	14	1	16	J. T. Neiss.	
Cass Lake.	Cass.	1,300	6															C. W. Burns.		
Collegeville.	Stearns.	1,282	20	11.2	-1.4	42	1	-24	12	41	0.51		0.23		14.3	5	15	F. Tremblett.		
Crookston.	Polk.	863	24	-1.2	-3.7	32	28	-38	12	43	0.35	- 0.25	0.15	3.5	4	15	7	A. G. Anderson.		
Detroit.	Becker.	1,364	17	-4.2	-8.7	35	28	-44	12†	62	0.39	- 0.20	0.20	5.0	2	15	2	G. W. Peoples.		
Ely.	St. Louis.	1	5.2			36	1	-35	12	44	0.21		0.08	5.8	7	12	10	Iver Wisted.		
Fairmont (near).	Martin.	1,240	26	16.8	+ 4.7	49	26	-14	12	40	T.	- 0.92	T.	0	12	7	12	W. F. Wherland.		
Faribault.	Rice.	1,003	15								0.15	- 0.40	0.10	2.0	2			Dr. A. B. Moulton.		
Farmington.	Dakota.	902	25	12.8	+ 0.8	50	17	-24	12	44	0.20	- 0.71	0.18	1.5	2	11	6	E. D. Akin.		
Fergus Falls.	Ottoville.	1,210	21	5.7	-2.3	36	16	-28	12	38	0.96	+ 0.32	0.22	9.6	11	13	2	C. E. Kissinger.		
Fort Ripley.	Crow Wing.	1,136	5	4.6		44	17	-30	8	52	0.23	- 0.30	0.07	4.5	5	22	0	J. J. Tucker.		
Fosston.	Polk.	1,289	3	-2.0		39	16	-40	12	47	0.31		0.23	5.1	2	15	9	O. N. Hem.		
Glencoe.	McLeod.	1,000	16	13.4	+ 0.6	42	26	-18	12	43	T.	- 0.68	T.	0	23	5	3	L. V. Koss.		
Grand Meadow.	Mower.	1,338	25	15.4	+ 3.8	44	29	-16	12	36	0.21		0.74	0.07	1.4	5	11	C. F. Greening.		
Gull Lake Dam.	Cass.	1,215	2	5.9		37	1†	-32	12	44	0.32		0.11	5.2	5	13	12	U. S. Engineer Corps.		
Hallowock.	Kittson.	815	14	-3.0	-2.6	33	1	-38	12	43	0.35	- 0.19	0.10	3.5	5	23	0	D. A. Robertson.		
Halsted.	Norman.	870	7	-4.8		33	1	-42	12	48	0.25		0.19	1.7	2	11	1	A. G. Holstrom.		
Hinckley.	Pine.	1,050	8	3.8		39	1	-26	12	48	0.37	- 0.22	0.08	4.5	5	2	15	W. R. Newman.		
International Falls.	Koochiching.	1,112	10	-1.2	-0.8	36	1	-34	7	52	0.44	- 0.53	0.10	4.4	6	15	7	C. Ardles.		
Itasca State Park.	Clearwater.	1,500	2	2.7		46	1	-44	12	50	0.10	- 0.10	0.01	1.0	1	20	5	J. A. Stillwell.		
Lake Crystal.	Blue Earth.	1,500	15			46	24	-16	31	35	0.15	- 0.10	1.5	2	10	18	E. D. Baker.			
Leech Lake Dam.	Cass.	1,301	25	1.5	-2.4	36	1	-35	12	48	0.38	- 0.35	0.28	4.6	6	11	14	U. S. Engineer Corps.		
Littlefork.	Koochiching.	1,301	3	-1.0		35	1	-42	7†	52	0.51	- 0.34	0.30	3.0	2	17	8	O. C. Olson.		
Long Prairie.	T																			

TABLE 1.—Climatological data for January, 1913. District No. 5—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
Minnesota—Continued.																				
Redwood Falls.	Redwood.	1,050	6	14.4	.....	54	25	-18	12	41	0.20	-0.76	0.20	1	20	6	5	nw.	Hockett Brothers.
Reeds Landing.	Wabasha.	681	17	47	25	-16	13	52	0.18	-0.33	0.06	6.2	6	7	0	24	nw.	John Deschneau.
Rochester.	Olmstead.	991	8	14.8	34	1	-40	67	53	0.19	0.08	3	9	10	12	nw.	Mary P. Leslie.
Roseau.	Roseau.	1,040	3	-6.0	34	1	-10	12	36	0.53	0.30	7.0	3	11	11	9	nw.	M. J. Hegland.
St. Charles.	Winona.	850	22	15.8 + 2.8	43	25	-10	12	36	0.42	-0.72	0.13	2.9	6	16	4	11	se.	S. W. Gleason.
St. Cloud.	Sherburne.	1,020	36	10.0 + 0.6	40	1 st	-24	12	48	0.42	-0.29	0.24	6.4	5	15	7	7	nw.	State Reformatory.	
St. Paul.	Ramsey.	940	42	13.8 + 2.2	45	16	-18	12	38	0.33	-0.57	0.15	4.1	8	10	13	8	nw.	U. S. Weather Bureau.	
St. Peter.	Nicollet.	825	18	15.2 + 0.1	46	25	-16	12	48	0.36	-0.48	0.23	4.3	3	12	14	5	w.	State Hospital.	
Sandy Lake Dam.	Aitkin.	1,234	20	3.6 - 2.4	37	1	-35	12	46	0.27	.....	0.15	2.8	3	19	2	10	w.	U. S. Engineer Corps.
State Sanatorium.	Cass.	5	3.9	.....	36 ^b	1	-34	12	41 ^b	0.31	.....	0.20	6.0	2	18	5	8	n.	Oscar Ostrom.
Stillwater.	Washington.	694	7	41	1	-28	12	43	0.41	0.26	5.2	2	17	6	8	n.	E. W. Lown.
Taylors Falls.	Chisago.	759	6	12.5	41	1	-28	12	43	0.31	0.22	7.0	4	25	0	6	n.	Dr. G. W. Beach.
Thief River Falls.	Pennington.	1,137	2	-3.6	32 ^a	15	-40	12	46 ^a	0.53	.....	0.05	.....	1.4	1	13	5	nw.	Minneapolis Gen. Elec. Co.
Tracy.	Lyon.	1	33	1	-35	12	48	0.50	0.15	6.5	5	2	21	8	E. D. Davis.
Warren.	Marshall.	859	1	-1.1	28	16 th	-40	12	50	0.52	0.30	7.0	3	22	0	9	n.	P. H. Holm.
Warroad.	Roseau.	1,069	3	-4.8	50	25	-14	12 th	40	0.08	-0.77	0.08	1.0	1	15	9	7	sw.	G. A. Sawyer.
Winnebago.	Faribault.	1,100	15	13.8 - 0.2	50	25	-14	12 th	40	0.28	-0.45	0.18	4.0	5	14	8	9	s.	H. H. Haight.	
Winnibogoshish.	Itasca.	1,300	25	1.8 - 3.1	38	1	-35	7	50	0.62	-0.50	0.14	6.6	9	15	5	11	nw.	U. S. Engineer Corps.	
Winona.	700	17	17.7 + 5.9	49	17	-17	11	40	0.01	-0.60	0.01	1.0	1	19	8	4	nw.	P. C. Myers.		
Worthington.	Nobles.	1,593	18	11.8 - 1.9	49	25	-17	12	49	0.05	.....	0.05	1.4	1	13	5	nw.	M. P. Mann.	
Zumbrota.	Goodhue.	917	17	14.4 + 0.3	41	16 th	-18	12	38	0.05	.....	0.05	1.4	1	13	5	nw.	W. C. Rowell.	
South Dakota.																				
Milbank.	Grant.	1,148	22	9.2 - 2.3	55	17	-22	12	50	0.61	+ 0.01	0.28	4.5	6	18	4	9	nw.	Miss Mary Partridge.	
Sisseton.	Roberts.	1,202	7	9.3	42 ^a	27	-23	11	43 ^a	0.10	0.07	2.5	2	20	11	nw.	George Gray.
Wisconsin.																				
Antigo.	Langlade.	1,489	19	13.8 + 0.3	35	16	-18	12	31	0.74	.....	0.30	7.4	6	17	0	14	w.	Elton C. Larzelere.
Barron.	Barron.	1,115	22	10.6 + 0.3	38	1	-25	12	38	0.33	-0.79	0.14	4.5	6	12	13	6	sw.	Wm. A. Kent.	
Beloit.	Rock.	750	47	23.8 + 3.4	51	17	7	39	1	20	-0.68	0.70	6.0	3	13	0	8	s.	Smith Observatory.	
Big St. Germain Dam.	Villas.	1,590	3	12.5	40	17	-18	12	37	0.87	0.20	9.7	13	5	14	12	w.	Fred Hessen.
Brodhead.	Green.	812	15	21.8 + 1.0	51	17	-9	12	42	1.34	0.00	0.34	13.0	7	10	11	10	sw.	Hector D. Kirkpatrick.	
Burnett.	Dodge.	880	9	18.2	47	17	-11	12	36	0.85	0.60	12.0	5	7	6	18	nw.	George W. Smith.
Cornell.	Chippewa.	993	1	15.3	38	1	-15	12	40	0.19	0.17	1.9	2	14	15	2	nw.	Bruner Falls Mfg. Co.
Cottage Grove.	Dane.	888	2	.....	.....	1	-15	12	40	1.54	.....	0.67	17.5	9	13	6	12	sw.	John E. Mellish.
Darlington.	Lafayette.	867	7	20.6	51	17	-12	12	40	1.00	0.40	11.0	5	16	1	14	nw.	F. J. O'Neil.
Deerskin Dam.	Forest.	1,685	3	13.0	42	17	-19	13	39	0.35	0.14	6.4	7	3	15	13	w.	Wm. E. O'Neal.
Delavan.	Walworth.	920	22	21.6 + 2.4	50	17	-11	13	40	1.09	-0.51	0.30	12.8	7	10	7	14	s.	Elwood S. Austin.	
Dodgeville.	Iowa.	1,220	13	.....	.....	22	12	40	1.00	-0.17	0.80	10.0	2	8	0	23	se.	Thomas Gibbon.	
Downing.	Dunn.	983	11	12.0 + 0.9	40	17 th	-22	12	40	1.00	-0.17	0.51	16.5	7	11	12	8	nw.	Eugene F. Stoddard.	
Eau Claire.	Eau Claire.	800	22	14.6 + 1.5	41	1	-18	12	37	0.49	-0.51	0.21	6.3	6	4	15	12	nw.	Robert D. Whittford.	
Glen Flora.	Rusk.	1,475	1	11.6	39	1	-24	12	39	0.75	0.35	7.2	4	9	6	6	nw.	G. A. Dargin.
Grand Rapids.	Wood.	1,021	14	14.9 + 1.6	44	17	-17	12	37	1.08	0.00	0.51	12.7	6	10	8	13	w.	Willis B. Raymond.
Grantsburg.	Burnett.	1,095	22	10.9 + 0.0	45	1	-32	12	45	0.75	-0.36	0.40	7.5	3	15	10	6	nw.	T. M. Olsen.	
Hancock.	Wauashara.	1,091	21	17.4 + 2.1	44	17	-15	12	33	1.65	+ 0.41	0.30	14.0	8	11	8	13	nw.	Frederick B. Hamilton.	
Hatfield.	Jackson.	973	19	14.1 - 0.8	45	17	-20	8	43 ^b	0.77	-0.06	0.20	7.8	7	10	8	13	nw.	Walter S. Woods.	
Hayward.	Sawyer.	1,107	22	11.8 + 1.8	43	17	-22	12	39	1.40	+ 0.36	0.30	14.0	9	12	7	12	sw.	A. E. Johnson.	
Hillsboro.	Vernon.	1,000	23	15.6 + 0.3	50	17	-22	28	44	1.65	+ 0.24	0.50	16.5	7	11	12	8	nw.	Emil V. Wernick.	
Koepenick.	Langlade.	1,683	22	15.6 + 2.9	40	17 th	-17	12	40	1.00	-0.35	0.20	10.0	9	10	9	15	nw.	Edward S. Koepenick.	
La Crosse.	La Crosse.	714	41	18.2 + 3.0	51	16	-10	12	32	0.89	-0.19	0.28	14.9	9	7	9	15	nw.	U. S. Weather Bureau.	
Lake Mills.	Jefferson.	897	22	20.6 + 2.2	49	17	-11	12	32	1.57	+ 0.02	0.60	13.6	12	8	11	12	nw.	S. Newton Dexter Smith.	
Lancaster.	Grant.	1,070	23	19.1 + 2.6	50 ^c	17	-14	12	41 ^c	1.61	-0.35	0.30	13.5	6	6	6	6	nw.	Edward Pollock.	
Long Lake.	Oneida.	1,502	5	10.6	.....	41	17	-24	13	46	0.59	.....	0.10	7.5	7	8	16	w.	Louis Frank.
Madison.	Dane.	974	44	19.4 + 2.9	49	17	9	12	36	1.64	+ 0.08	0.68	16.2	9	6	12	13	nw.	U. S. Weather Bureau.	
Marshfield.	Wood.	1,276	0	14.4	.....	43	17	-19	12	46	0.88	.....	0.49	6.5	4	20	.....	nw.	Agr. Exper. Station.
Mather.	Juneau.	962	9	13.4	44	16	-15	12	42	1.57	0.40	14.2	9	11	0	20	w.	Frank Evans.
Mauston.	.....	882	17	17.6 + 1.8	41	1	-12	12 th	31	0.80	-0.26	0.20	11.5	8	9	9	13	nw.	Eugen L. Hitchcock.
Meadow Valley.	.....	974	23	15.4 + 1.7	45	17	-16	12	38	0.48	-0.32	0.12	13.0	7	8	14	9	nw.	Charles H. Johnson.
Medford.	Taylor.	1,420	24	13.6 + 0.7	41	17	-22	12	38	0.70	-0.26	0.40	7.0	4	14	6	11	w.	Wm. Zeit.	
Merrill.	Lincoln.	1,267	7	15.4	42	17	-13	12	40	0.68	0.36	7.0	7	17	0	14	nw.	A. W. Durr.
Minoqua.	Oneida.	1,604	9	11.8	40	17	-21	12	40	0.38	0.10	3.5	8	6	14	11	nw.	Benjamin W. Applebee.
Mondovi.	Buffalo.	738	5	15.2	45	17	-23	28	42	0.42	0.10	9.5	8	13	9	9	nw.	Dr. Charles Hebard.
Mount Horeb.	Dane.	1,226	9	18.6	48	17 th	-11	12	37	1.99	0.90	15.0	8	11	4	16	nw.	W. M. Lewis.
Neillsville.	Grant.	666	4	17.5	52	17	-15	28	55	1.17	0.51	16.0	6	17	6	8	nw.	Wm. Hessler.
New Richmond.	Clark.	996	23	14.7 + 1.6	41	17	-19	12	38	0.45	-0.66	0.20	4.5	4	3	0	18	13	nw.	Wm. Heaslett.
Oscceola.	St. Croix.	990	8	11.8	42	1	-24	12	41	0.60	0.30	6.0	3	0	18	13	nw.	Franc

MONTHLY WEATHER REVIEW.

JANUARY, 1913

TABLE 1.—Climatological data for January, 1913. District No. 5—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.			Departure from the normal.			Highest.			Lowest.							
				Date.	Date.	Date.	Date.	Date.	Date.	Date.	Date.	Date.	Date.	Date.	Date.	Total.	Greatest in 24 hours.	Total snowfall, unmeasured.		
<i>Iowa.</i>																				
Albia.....	Monroe.....	959	15	22.4	-1.3	55	16	-12	12	45	0.92	-0.50	0.36	6.0	6	8	14	9	sw.	
Algona.....	Kossuth.....	1,213	39	17.6	+4.3	51	25	-14	12	37	0.20	-0.59	0.08	5.0	5	19	9	3	nw.	
Alta.....	Buena Vista.....	1,513	22	15.5	-0.9	54	23	-14	12	47	0.20	-0.44	0.12	2.5	5	15	10	6	nw.	
Amana.....	Iowa.....	721	37	22.9	+6.6	51	1	-11	12	38	0.98	-0.49	0.48	7.0	5	9	16	6	nw.	
Ames.....	Story.....	926	37	20.9	+3.4	53	29	-16	12	39	1.11	+0.19	0.70	10.0	4	11	13	7	nw.	
Baxter.....	Jasper.....	996	13	21.6	+1.3	59	1 ²	-15	12	45	0.72	-0.16	0.40	11.1	7	16	8	7	sw.	
Belle Plaine.....	Benton.....	886	23	22.6	+4.4	52	1	-13	12	37	1.15	-0.62	0.52	10.4	5	10	11	10	nw.	
Belmond.....	Wright.....	1,184	3	16.8	-	51	29	-16	12	37	0.63	-0.30	0.30	6.1	6	2	18	11	nw.	
Bloomfield.....	Davis.....	881	6	26.5	-	56	16	-10	12	37	1.30	-0.96	0.25	8.2	5	-	-	-	nw.	
Bonaparte.....	Van Buren.....	22	26.6	+3.4	56	18 ¹	-10	12	38	1.02	-0.22	0.22	9.0	3	16	3	12	-		
Boone.....	Boone.....	1,134	8	17.6	-	52	29	-15	12	44	0.36	-0.62	0.03	0.6	4	12	12	7	s.	
Britt.....	Hancock.....	1,236	16	16.8	+0.8	50	25	-16	12	37	0.96	-0.28	0.50	12.5	5	19	10	2	nw.	
Buckingham.....	Tama.....	13	-	-	-	-	-	-	-	-	0.51	-0.55	0.34	12.5	6	1	7	5	s.	
Burlington.....	Des Moines.....	544	17	26.2	-0.8	55	16	-7	12	40	1.70	-0.28	0.50	11.6	7	14	12	5	nw.	
Carroll.....	Carroll.....	1,265	23	17.6	-1.4	54	29	-15	12	39	0.90	+0.09	0.50	9.0	5	14	6	11	nw.	
Cedar Rapids.....	Linn.....	733	31	21.7	+3.5	50	1 ²	-10	13	44	1.12	-0.30	0.40	7.7	5	15	4	12	s.	
Charles City.....	Floyd.....	1,015	22	16.5	+5.1	48	1	-14	8	42	0.28	-0.69	0.12	9.7	5	4	14	13	nw.	
Clear Lake.....	Cerro Gordo.....	1,241	15	17.7	+1.1	50	1 ²	-15	11	37	0.28	-0.29	0.10	2.8	4	15	6	16	s.	
Clinton.....	Clinton.....	593	46	25.1	+5.4	52	16 ¹	-7	12	34	1.10	-0.82	0.40	9.1	9	6	16	7	sw.	
Columbus Junction.....	Louisa.....	595	12	26.5	+3.2	53	10	-8	12	31	1.02	-0.45	0.40	6.2	8	17	7	7	s.	
Davenport.....	Scott.....	580	42	25.6	+4.8	55	16	-7	12	34	1.04	-0.53	0.43	7.4	9	7	12	12	sw.	
Decorah.....	Winneshiek.....	875	20	17.8	+2.3	49	17	-12	12	39	1.22	+0.67	0.48	13.0	6	6	-	-	-	
Delaware.....	Delaware.....	1,083	22	20.2	+4.4	48	1	-13	12	36	0.66	-0.33	0.41	8.0	4	14	7	10	nw.	
Des Moines.....	Polk.....	861	35	23.5	+3.1	55	29	-1	9	12	42	1.10	-0.11	0.41	16.1	7	11	11	9	sw.
Dubuque.....	Dubuque.....	639	49	22.7	+4.4	53	16	-7	12	38	1.11	-0.38	0.43	9.0	9	6	10	15	s.	
Earlham.....	Madison.....	11	22.4	+3.0	56	29	-21	12	39	2.01	+0.93	1.00	17.5	6	8	7	6	nw.		
Elkader.....	Clayton.....	727	34	18.6	+3.8	50	16	-16	8	31	0.92	-0.54	0.32	11.0	4	12	8	11	nw.	
Elma.....	Howard.....	1,182	3	16.6	-	45	1 ²	-16	8	36	0.23	-0.26	0.10	5.0	6	18	5	8	nw.	
Estherville.....	Emmet.....	1,294	18	14.0	-1.0	58	25	-15	12	46	0.30	-0.26	0.10	3.0	4	-	-	-	-	
Fairfield.....	Jefferson.....	780	29	26.2	+8.6	53	17	-10	12	40	0.92	-0.78	0.31	7.9	8	21	4	6	s.	
Fayette.....	Fayette.....	1,003	23	18.1	+2.0	46	1 ²	-16	8	40	1.00	-0.28	0.52	11.2	6	14	9	8	nw.	
Forest City.....	Winnebago.....	1,226	19	13.8	-2.4	47	25	-15	12	42	0.35	-0.29	0.20	3.5	3	13	10	8	nw.	
Fort Dodge.....	Webster.....	1,126	13	16.0	-1.1	53	25	-15	12	44	0.60	-0.04	0.30	5.0	3	-	-	-	-	
Fort Madison.....	Lee.....	516	64	-	-	-	-	-	-	-	1.30	-0.66	0.50	8.0	4	-	-	-	s.	
Gilmantown.....	Marshall.....	1,052	14	-	-	-	-	-	-	-	1.01	+0.18	0.50	10.1	4	-	-	-	-	
Grand Meadow.....	Clayton.....	1,180	22	17.3	+1.8	46	1	-17	12	32	0.76	-0.41	0.39	7.4	6	7	16	8	nw.	
Grinnell.....	Poweshiek.....	1,023	21	23.0	+2.8	52	1	-12	12	37	2.05	-0.78	1.08	11.5	5	13	11	7	nw.	
Grundy Center.....	Gruny.....	976	22	20.4	+3.5	50	1	-17	12	36	1.30	+0.48	0.80	13.0	5	17	10	4	nw.	
Guthrie Center.....	Guthrie.....	1,077	18	22.0	-0.7	52	29	-18	12	42	0.74	+0.15	0.25	9.5	6	20	4	7	nw.	
Hampton.....	Franklin.....	1,155	23	18.4	+2.9	54	29	-14	12	38	0.90	-0.14	0.27	8.0	6	5	20	6	nw.	
Humboldt.....	Humboldt.....	1,095	25	18.8	+2.0	54	25	-19	12	39	0.52	-0.03	0.25	5.2	4	23	5	3	nw.	
Independence.....	Buchanan.....	921	49	19.6	+4.4	48	1	-15	12	39	1.38	+0.15	0.50	10.8	7	19	3	9	sw.	
Indianola.....	Warren.....	969	22	24.4	+4.2	55	29	-12	12	39	1.45	+0.18	0.66	11.2	6	13	5	13	nw.	
Iowa City.....	Johnson.....	683	52	22.0	+2.9	52	1	-12	12	52	1.19	-0.55	0.50	9.5	5	10	6	15	nw.	
Iowa Falls.....	Hardin.....	1,170	20	15.7	+0.5	48	25	-18	12	50	1.14	+0.24	0.35	9.7	7	18	6	7	nw.	
Jefferson.....	Greene.....	1,052	14	20.6	-	57	29	-16	12	41	0.64	-0.28	0.30	5.1	5	12	11	8	nw.	
Keokuk.....	Lee.....	614	42	25.4	+4.7	60	16	-5	12	39	1.04	-0.65	0.50	4.5	8	7	19	5	s.	
Keosauqua.....	Van Buren.....	644	21	25.0	+1.9	57	16	-10	9	51	1.00	-0.37	0.25	7.5	6	7	10	14	nw.	
Knoxville.....	Marion.....	920	18	23.3	+0.2	54	29	-10	12	37	0.90	-0.45	0.30	8.0	4	15	10	6	sw.	
Lacona.....	Warren.....	14	-	-	-	-	-	-	-	-	1.42	-0.25	0.62	8.0	2	11	15	5	-	
Lansing.....	Allamakee.....	632	8	-	-	-	-	-	-	-	1.03	-0.48	0.40	13.4	10	-	-	-	-	
Le Claire.....	Scott.....	576	13	-	-	-	-	-	-	-	0.95	-0.48	0.40	5.5	11	-	-	-	-	
Marshalltown.....	Marshall.....	947	21	18.6	-0.8	53	29	-14	12	47	1.13	+0.13	0.36	9	10	10	11	11	nw.	
Mason City.....	Cerro Gordo.....	1,132	16	17.0	+1.9	48	25	-15	12	35	0.21	-0.94	0.16	2.1	2	16	6	9	nw.	
Monroe.....	Jasper.....	922	1	22.6	-	50	1	-15	12	41	1.03	-0.65	13.6	4	17	4	10	nw.		
Mount Pleasant.....	Henry.....	729	32	25.8	+4.8	52	17	-7	12	35	1.21	-0.25	0.42	8.3	6	11	12	8	nw.	
Muscatine.....	Muscataine.....	53	-	-	-	-	-	-	-	-	0.58	-1.33	0.17	10.2	6	6	17	8	nw.	
New Hampton.....	Chickasaw.....	1,169	16	17.2	+0.4	46	1	-15	12	33	0.82	-0.01	0.45	7.5	3	22	2	7	s.	
Nora Springs.....	Floyd.....	1,064	19	19.0	-	52	29	-16	12	44	0.57	-0.33	0.33	3.7	3	15	10	6	s.	
Northwood.....	Worth.....	1,122	17	15.4	-0.9	49	25	-15	12	37	0.37	-0.48	0.20	3.7	5	17	8	6	nw.	
Olin.....	Jones.....	760	15	23.0	+2.4	51	16	-12	12	35	1.25	-0.43	0.55	7.0	3	14	10	7	nw.	
Osage.....	Mitchell.....	1,184	26	17.2	+3.2	49	29	-14	12	37	0.50	-0.42	0.30	5.0	2	20	2	9	nw.	
Oskaloosa.....	Nashaska.....	843	37	23.8	+4.6	52	1 ²	-15	12	36	0.89	-0.03	0.46	8.2	5	16	5	10	nw.	
Ottumwa.....	Wapello.....	649	18	23.3	-1.2	55	29	-12	12	45	-	-	-	17	8	6	6	6	nw.	
Pella.....	Marion.....	877	11	23.6	+0.4	52	1 ²	-17	12	45	0.97	-0.15	0.32	11.3	5	26	0	5	s.	
Perry.....	Dallas.....	975	12	22.2	+1.5	56	29	-18	12	44	1.42	+0.60	0.80	13.5	4	10	18	3	sw.	
Pocahontas.....	Pocahontas.....	1,248	9	18.7	-	54	25	-15	12	40	0.29	-0.14	0.2							

TABLE 1.—Climatological data for January, 1913. District No. 5—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of partly cloudy days.	Number of cloudy days.				
<i>Indiana.</i>																					
Collegeville.....	Jasper.....	14	28.6	+1.9	58	17	—	3	9	38	2.96	+0.57	0.73	7.5	10	10	5	16	sw.	Otto Miller.	
Knox.....	Starke.....	716	29.8	—	54	17	2	13	32	4.57	1.25	6.8	16	4	8	6	19	s.	W. R. R. Tatman.		
Laporte.....	Laporte.....	810	27.4	+2.3	51	19	4	13	35	3.21	+0.96	0.80	3.0	14	7d	6d	14d	sw.	Wm. M. Walton, jr.		
Plymouth.....	Marshall.....	780	29.6	—	53	17	2	29	32	3.27	—	0.65	6.0	16	6	11	14	sw.	J. W. Siders.		
South Bend.....	St. Joseph.....	726	29.6	+4.4	55	17	4	13	36	3.31	+0.58	1.06	6.5	18	4	10	17	s.	Henry H. Swaim.		
<i>Illinois.</i>																					
Aledo.....	Mercer.....	738	26.8	+3.5	53	17	—	7	12	35	1.09	—0.31	0.45	6.5	9	8	10	13	nw.	William B. Frew.	
Alexander.....	Morgan.....	670	31.2	+3.9	55	17	2	12	39	3.18	+1.01	1.16	1.0	14	4	9	18	nw.	George H. Hall.		
Antioch.....	Lake.....	861	24.1	+3.9	52	17	—	8	12	35	1.81	+0.19	1.00	11.0	5	6	14	11	nw.	J. C. James.	
Astoria.....	Fulton.....	650	28.3	+2.4	54	17	—	2	12	33	2.21	—0.05	0.80	2.0	10	9	6	16	nw.	Edward V. Bohl.	
Aurora.....	Kane.....	678	34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	W. Holden.	
Beardstown.....	Cass.....	448	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Mrs. L. M. Rice.	
Bement.....	Piatt.....	700	31.9	—	56	17	4	12	40	5.20	—	1.35	2.2	13	10	5	16	s.	N. N. Stevenson.		
Bloomington.....	McLean.....	840	30.0	+4.6	53	16 ^d	0	12	35	3.38	+1.23	0.88	3.5	10	8	9	14	nw.	Prof. H. N. Pearce.		
Cairo.....	Alexander.....	359	40.2	+5.4	64	5	17	12	34	11.65	+7.83	3.53	0.3	11	8	4	19	s.	U. S. Weather Bureau.		
Carbondale.....	Jackson.....	412	38.7	—	60	19 ^d	13	12	34	7.70	+5.01	1.62	2.2	15	10	6	15	nw.	State Normal University.		
Carlinville.....	Macoupin.....	663	23	33.1	+4.2	59	20	4	12	39	3.86	+1.55	1.00	T.	10	12	5	14	n	Blackburn College.	
Carlyle.....	Clinton.....	470	28	—	—	—	—	—	—	—	6.21	+3.38	1.75	T.	13	—	—	—	—	Hervey O. Jones.	
Chester.....	Randolph.....	380	21	—	—	—	—	—	—	—	9.78	+6.86	2.10	—	18	—	—	—	—	Charles S. Gollon.	
Clinton.....	Dewitt.....	727	30.9	—	55	17	1	12	39	4.40	—	1.72	0.8	13	10	7	14	sw.	J. Frank Ziegler.		
Coolsburg.....	Adams.....	763	29.2	+4.0	56	16 ^d	—	3	12	33	1.65	+0.58	0.56	2.6	10	6	18	s.	Dr. J. R. Lambert.		
Cobden.....	Union.....	656	38.9	+4.9	68	17	12	12	37	8.13	+4.55	1.85	0.5	13	14	3	14	sw.	John Buck.		
Dakota.....	Stephenson.....	929	23.2	—	50	17	—	10	12	32	1.45	—	0.46	11.5	8	9	10	12	nw.	Elmer G. Smith.	
Decatur.....	Macon.....	685	32	32.0	+5.5	56	17	3	12	41	5.19	+2.66	1.25	2.2	16	9	9	13	nw.	H. U. Bardwell.	
Dixon.....	Lee.....	725	24.8	+4.5	53	16	—	6a	12	34	0.94	+0.98	0.40	3.0	4	8	8	14	s.	G. H. Knetzger.	
Du Quoin.....	Perry.....	459	36.9	+4.9	63	20	12	12	39	7.11	+4.42	2.29	2.1	14	13	3	15	sw.	Edward O. Welch.		
Dwight.....	Livingston.....	600	28.9	+3.2	54	17	—	2	12	40	2.59	+0.46	0.57	4.6	13	7	3	21	s.	W. Mc. K. Brown.	
East St. Louis.....	St. Clair.....	481	2	—	—	—	—	—	—	—	4.94	—	0.96	0	13	—	—	—	—	Ewing Observatory.	
Edwardsville.....	Madison.....	554	14	—	—	—	—	—	—	—	4.90	+2.36	1.30	0	11	—	—	—	—	Abram Wilson.	
Elgin.....	Kane.....	716	6	26.2	—	53	17	—	6	12	35	1.53	—	0.55	8.8	8	2	13	nw.	Elgin Observatory.	
Ewing.....	Franklin.....	449	1	—	—	—	—	—	—	—	S.17	—	1.56	0.2	14	—	—	—	—	—	
Fairview.....	Fulton.....	733	2	—	—	—	—	—	—	—	1.57	—	0.66	—	—	—	—	—	—	—	
Galva.....	Henry.....	842	21	26.0	+4.2	54	17	—	7	12	34	1.31	+0.41	0.60	5.1	10	11	4	16	s.	Prof. F. U. White.
Grafton.....	Jersey.....	422	20	—	—	—	—	—	—	—	5.99	+3.64	2.00	0.5	16	—	—	—	—	—	R. C. Goodrich.
Greenville.....	Bond.....	635	34.6	+5.5	59	19 ^d	7	12	37	5.01	+2.18	1.37	T.	11	12	7	12	s.	H. W. Reidermann.		
Griggsville.....	Pike.....	650	30.8	+3.9	56	17	0	12	37	2.26	+0.19	0.69	0.2	5	12	6	13	nw.	Geo. F. Kneeland.		
Havana.....	Mason.....	475	28.4	+1.5	55	17	—	1	12	33	1.21	+0.90	0.25	1.4	9	10	8	13	nw.	L. L. Euteneuer.	
Henry.....	Marshall.....	500	25.6	+5.4	55	16	—	4	12	42	1.69	+0.19	0.65	6.8	9	13	6	12	sw.	Dr. F. A. Powell.	
Hillsboro.....	Montgomery.....	675	19	34.3	+3.9	60	19	5	12	36	6.84	+4.20	2.23	T.	11	11	1	19	s.	Ira L. Woodward.	
Joliet.....	Will.....	609	22	26.7	+2.7	54	17	—	3	12	34	1.59	+0.36	0.40	6.5	9	11	9	11	sw.	F. M. Muhlig.
Kishwaukee.....	Winnebago.....	730	25	23.8	+3.8	53	17	—	9	12	34	0.67	+1.46	0.32	7.7	9	4	14	s.	George Stevens.	
La Grange.....	Cook.....	657	21	25.6	+2.7	50	16 ^d	—	4	12	39	1.10	+0.74	0.45	5.3	7	8	16	w.	Prof. F. E. Sanford.	
La Harpe.....	Hancock.....	698	27.8	+4.0	58	16	—	6	12	38	1.14	+1.19	0.55	6.5	4	15	10	6	nw.	Geo. E. Campbell.	
Lanark.....	Carroll.....	883	23.6	+3.5	47	16 ^d	—	9	12	37	0.91	+0.53	0.45	10.8	8	17	5	9	s.	M. N. Wertz.	
La Salle.....	Lasalle.....	536	8	27.2	+4.9	57	17	—	3	12	29	1.29	+0.87	0.77	5.2	11	4	10	17	sw.	U. S. Weather Bureau.
Lincoln.....	Logan.....	575	25	31.2	+4.2	55	17	1	12	40	3.63	+1.32	1.28	2.2	13	13	6	12	s.	Prot. C. S. Oglesbee.	
Macomb.....	McDonough.....	700	9	—	—	—	—	—	—	—	1.11	—	0.62	3.0	6	—	—	—	—	State Normal University.	
Manteno.....	Kankakee.....	711	2	—	—	—	—	—	—	—	2.63	—	0.67	3.4	15	9	10	12	sw.	J. F. Schmetzler.	
Martinton.....	Iroquois.....	633	26	29.0	+5.1	53	17 ^d	0	12	40	3.38	+1.31	1.06	3.5	11	4	14	13	s.	Joseph H. Peltier.	
Mascoutah.....	St. Clair.....	428	36.5	+5.4	61	19 ^d	10	12	37	5.10	+2.50	1.65	T.	10	12	10	9	nw.	Geo. Heinrich.		
Minonk.....	Woodford.....	745	20	28.6	+4.7	54	17	—	3	12	36	2.00	+0.22	0.59	6.0	12	7	10	14	w.	John C. Danforth.
Monmouth.....	Warren.....	784	21	27.2	+4.4	53	16	—	7	12	34	1.66	+0.30	0.70	9.5	6	10	7	14	s.	Dr. J. C. Hutchison.
Morris.....	Grundy.....	518	2	28.4	—	56	16 ^d	—	3	12	40	1.52	—	0.68	4.0	10	3	11	17	w.	E. G. Cryder.
Morrison.....	Whiteside.....	685	19	25.0	+4.2	53	17	—	8	12	32	1.00	+0.61	0.39	6.3	10	11	9	9	w.	S. A. Maxwell.
Morrisonville.....	Christian.....	638	14	32.4	+4.0	58 ^a	19	4	12	30 ^a	4.84	+2.49	1.38	0.8	14	9	7	15	s.	J. D. Lewis.	
Mount Vernon.....	Jefferson.....	511	19	34.2	+2.0	57	16 ^d	10	22	34	8.76	+5.58	1.70	1.0	14	5	3	23	n.	Theodore P. Stelle.	
Nashville.....	Washington.....	503	13	—	—	—	—	—	—	—	7.57	+5.00	1.35	T.	13	—	—	—	—	H. M. Potter.	
Oregon.....	Ogle.....	702	4	24.6 ^a	—	52 ^a	17	—	9	12	39 ^a	0.98	—	0.50	6.8	6	5	9	17	s.	Samuel Ray.
Ottawa.....	Lasalle.....	500	27	26.6	+4.8	55	16 ^d	—	2	12	40	1.80	+0.31	0.71	5.5	9	12	1	18	nw.	Miss Maude M. Harris.
Pana.....	Lee.....	930	1	—	—	—	—	—	—	—	1.28	—	0.60	3.9	6	—	—	—	—	A. C. McBride.	
Peoria.....	Peoria.....	609	57	27.8	+4.7	54	17	—	3	12	30	2.18	+0.02	0.62	7.3	13	8	7	16	s.	U. S. Weather Bureau.
Pontiac.....	Livingston.....	546	11	29.6	+4.3	55	17	—	1	12	41	3.03	+0.61	0.69	8.0	12	4	9	18	sw.	Geo. Butterworth.
Quincy.....	Adams.....	481	7	28.9	—	57	16	—	1	12	43	1.66	—	0.72	1.8	9	—	—	—	Fred J. Brinkoetter.	
Riley.....	McHenry.....	956	54	24.6 ^b	+6.1	51 ^b	17	—	9	12	36	1.02	+0.83	0.35	5.7	9	5	11			

TABLE 2.—*Daily precipitation for January, 1913. District No. 5, Upper Mississippi Valley.*

TABLE 2.—*Daily precipitation for January, 1913. District No. 5—Continued.*

TABLE 2.—*Daily precipitation for January, 1913. District No. 5—Continued.*

TABLE 2.—*Daily precipitation for January, 1913. District No. 5—Continued.*

* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

MONTHLY WEATHER REVIEW.

JANUARY, 1913

TABLE 3.—Maximum and minimum temperatures for January, 1913. District No. 5, Upper Mississippi Valley.

Date.	North Dakota.								Minnesota.																			
	Bottineau. \$§		Devils Lake.		Lisbon. \$§		Minot. \$§		Pembina. \$§		Collegeville.		Crookston. \$§		Grand Meadow.		Montevideo. \$§		Moorhead.		New Ulm. \$§		Pine River Dam.		St. Paul.		Winnibigoshish.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	20	1	32	8	50	20	.....	.....	36	12	42	31	29	18	40	27	45	26	32	16	45	20	36	16	42	22	38	15
2....	19	-6	17	-2	36	10	.....	.....	30	10	37	9	9	3	27	12	33	12	16	0	20	17	26	18	29	10	15	7
3....	16	-6	18	0	28	-3	.....	.....	10	5	15	6	5	-3	22	7	32	18	12	0	21	8	20	-9	14	5	10	-8
4....	-6	-20	5	-16	19	-4	.....	.....	5	-10	21	-2	6	-13	18	3	23	23	11	-11	10	5	9	-18	16	-5	10	-14
5....	-20	-31	-15	-25	10	-18	.....	.....	-10	-18	13	-11	-10	-19	13	-4	12	-9	-10	-20	3	-4	7	-20	0	-7	-3	-18
6....	-13	-39	-9	-26	-3	-25	.....	.....	-8	-22	9	-21	-12	-25	2	-6	3	-18	-14	-27	2	-10	-5	-27	0	-9	-5	-28
7....	0	-38	7	-16	7	-24	.....	.....	-5	-18	7	-15	-5	-26	7	-3	-11	-3	-27	10	-10	-2	-34	9	-3	-8	-35	
8....	20	-16	22	-5	25	-20	.....	.....	-10	-15	14	-10	14	-23	11	-12	23	-9	17	-15	15	-8	10	-36	14	-7	12	-29
9....	4	-10	18	-7	25	-12	.....	.....	-5	-22	28	8	19	-10	21	2	32	7	22	1	29	-7	23	5	29	9	20	6
10....	-10	-23	-7	-17	15	-10	.....	.....	-10	-20	26	5	5	-10	23	3	18	4	2	-10	18	5	22	-3	22	10	15	4
11....	-23	-29	-17	-30	12	-18	.....	.....	-15	-18	15	-8	5	-21	22	-4	-3	-10	-10	-26	2	-7	8	-18	17	-10	4	-18
12....	-14	-41	-10	-32	10	-33	.....	.....	-18	-28	3	-24	3	-38	3	-16	-5	-20	-7	-37	5	-16	-6	-43	4	-18	-8	-34
13....	11	-36	4	-24	21	-25	.....	.....	-5	-38	9	-5	8	-33	10	-3	22	-5	4	-20	12	-14	1	-17	8	-1	5	-18
14....	14	-31	17	4	33	-20	.....	.....	-10	-28	24	-12	19	-22	20	-8	33	5	24	4	28	-3	19	-12	28	1	15	-8
15....	16	-7	17	-4	30	-3	.....	.....	-15	-30	33	13	20	-1	35	20	5	18	0	38	11	28	3	35	25	18	4	
16....	3	-5	9	-8	40	0	.....	.....	-12	-28	36	17	29	-3	41	23	45	-2	36	2	40	18	34	2	45	28	35	6
17....	-3	-14	6	-14	15	-18	.....	.....	-10	-26	33	-3	4	-9	43	12	32	2	-12	15	5	31	-7	39	5	6	-8	
18....	5	-19	-3	-18	25	-14	.....	.....	-18	-30	10	-13	8	-18	16	0	20	-12	13	-18	12	-7	1	-22	16	-4	6	-17
19....	-13	-18	5	-16	13	-14	.....	.....	-10	-32	19	0	0	-16	32	12	10	10	-13	-14	12	3	-7	32	1	8	-5	
20....	-4	-36	-7	-28	15	-23	.....	.....	-8	-22	3	-13	3	-21	14	-2	23	-12	-6	-22	20	9	-4	-23	1	-7	0	-22
21....	11	-36	0	-16	23	-20	.....	.....	-12	-20	28	-13	6	-22	32	-4	30	10	9	-13	38	-6	23	-29	34	-4	22	-28
22....	21	-20	22	-10	26	-12	.....	.....	-5	-23	34	3	25	-18	39	13	42	15	29	-12	40	12	31	-21	38	13	28	-20
23....	2	-15	3	-14	23	-6	.....	.....	-8	-20	34	-3	5	-12	35	10	20	-3	1	-9	23	7	27	-7	32	3	0	-8
24....	5	-15	5	-5	33	-8	.....	.....	-5	-22	29	-3	12	-10	37	3	34	10	11	0	41	2	17	-8	33	3	10	-10
25....	22	-10	31	1	43	-2	.....	.....	0	-12	37	12	22	-4	43	22	51	12	34	3	49	21	28	-5	40	21	26	-3
Mns.	5.6	-17.7	8.5	-11.2	24.0	-11.2	.....	.....	-1.4	-17.6	23.2	-0.8	10.1	-12.5	25.6	5.1	25.5	2.9	11.8	-9.9	23.2	1.5	16.2	-11.0	23.8	3.7	12.5	-8.9

Date.	Wisconsin.												Iowa.															
	Eau Claire.		Grantsburg.		Hancock.		La Crosse.		Madison.		Prentice.		Wausau.		Algona.		Cedar Rapids.		Charles City.		Davenport.		Des Moines.		Dubuque.		Keokuk.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	41	14	45	12	40	13	44	26	43	25	36	5	38	12	41	26	50	26	48	25	50	31	48	35	48	28	53	32
2....	33	16	38	17	38	22	37	18	36	22	36	24	35	17	32	23	32	19	40	25	38	21	40	21	41	22	30	19
3....	17	2	40	-3	21	10	22	10	24	13	22	4	24	12	30	13	32	16	27	9	34	16	37	17	30	16	40	19
4....	14	-4	28	10	14	-1	18	6	19	8	11	0	16	4	28	11	25	15	25	10	26	17	27	19	24	14	28	20
5....	5	-6	5	-13	10	0	14	5	14	-11	11	-4	24	-2	19	17	14	1	21	13	21	6	17	7	21	15	15	
6....	7	-4	1	-15	16	0	11	-1	17	7	14	-3	14	1	1	-8	15	7	4	-3	17	11	7	2	14	7	16	9
7....	13	-2	7	-11	15	9	15	4	17	12	10	-1	14	6	6	-4	19	6	11	0	21	16	14	4	19	14	22	16
8....	15	-10	13	-22	15	-9	15	-5	19	3	14	-20	18	-7	11	-12	14	-1	10	-14	19	5	15	-6	19	5	22	7
9....	27	5	28	9	20	3	26	6	22	3	22	2	21	4	23	5	23	-3	21	-1	26	10	23	6	24	7	31	11
10....	21	4	17	3	21	11	24	7	31	19	23	-4	19	8	25	-1	34	9	25	-1	35	19	35	20	40	25	25	
11....	20	-4	19	-12	23	3	24	-5	32	-4	23	4	21	9	20	5	22	19	22	-7	35	3	30	-1	35	-2	35	5
12....	-3	-18	7	-32	3	-15	2	-10	3	4	-24	14	-15	4	-14	5	-7	3	-14	7	-7	3	-9	8	-7	13	-5	
13....	11	-6	12	-7	12	-9	13	-3	15	0	10	-18	9	-7	9	-4	17	-10	11	8	24	6	14	-2	18	1	30	7
14....	25	-7	23	-4	21	-11	26	-5	31	1	21	-12	20	-5	26	-6	39	4	28	-8	37	3	38	-4	35	-3	42	3
15....	36	19	30	9	35	15	40	26	31	33	15	37	17	39	24	43	-1	42	22	43	37	45	33	43	35	55	39	
16....	39	28	38	5	38	20	51	36	49	33	37	30	36	32	41	23	50	30	43	25	55	42	52	30	53	34	60	47
17....	39	11	40	3	44	21	49	19	49	22	37	8	41	16	41	9	30	29	41	16	52	30	50	21	56	32	62	

TABLE 3.—*Maximum and minimum temperatures for January, 1913. District No. 5—Continued.*

Date.	Hannibal, Mo.		Laporte, Ind.		Illinois.															
					Cairo.		Greenville.		La Salle.		Monmouth.		Mount Vernon. ^{§§}		Peoria.		Springfield.		Winnebago.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.	55	31	41	21	55	33	55	27	47	29	50	26	54	22	50	28	51	29	43	24
2.	40	24	38	29	52	28	47	27	39	25	44	25	52	32	41	26	39	25	39	21
3.	42	22	32	22	41	25	38	22	3 ^a	20	37	16	36	20	36	20	38	22	28	15
4.	34	20	28	16	58	32	36	24	27	18	29	18	39	22	24	18	30	18	24	12
5.	24	19	24	12	64	32	33	20	27	17	22	14	42	25	27	17	26	16	19	11
6.	20	11	32	24	62	30	34	23	15	19	10	33	28	25	15	27	15	18	15	10
7.	23	17	30	22	34	28	32	27	29	18	22	14	32	27	29	20	31	23	20	15
8.	26	11	29	18	28	20	31	19	19	8	20	9	27	19	22	6	24	17	18	5
9.	29	17	27	5	35	25	31	22	26	6	33	4	36	18	26	6	28	22	24	0
10.	38	22	32	16	46	28	33	23	35	22	35	19	43	24	34	22	34	24	32	19
11.	38	6	35	28	53	29	37	29	35	9	35	10	41	30	35	8	36	12	33	10
12.	16	— 1	28	10	29	17	30	7	10	— 3	10	— 7	24	11	15	— 3	15	3	10	— 10
13.	33	11	31	4	36	25	34	16	28	9	28	3	35	13	30	11	33	13	22	— 5
14.	41	9	32	11	43	26	39	11	34	9	33	1	40	18	36	15	37	16	29	— 1
15.	55	38	38	25	55	37	45	32	44	34	42	30	48	18	42	32	45	33	40	28
16.	59	49	40	32	60	51	54	44	56	42	53	37	57	38	53	41	55	42	49	35
17.	58	32	37	33	61	54	56	54	57	34	52	33	51	47	54	34	56	43	52	31
18.	35	26	41	32	56	44	55	31	34	27	35	24	48	37	34	27	43	30	32	21
19.	53	29	51	25	59	42	59	30	45	27	45	25	50	30	47	28	55	30	42	22
20.	30	11	40	25	62	28	59	22	36	10	42	14	50	40	38	11	48	14	37	12
21.	31	10	27	5	35	22	32	13	28	6	31	5	34	15	28	8	30	11	29	3
22.	36	22	35	9	38	26	37	21	37	20	38	18	44	10	37	21	36	23	39	16
23.	41	29	38	30	56	38	45	31	39	28	41	31	51	23	38	27	41	31	37	30
24.	42	20	38	22	44	38	44	29	39	21	39	14	45	35	38	19	41	25	35	12
25.	52	29	38	22	52	32	53	27	45	29	50	27	52	25	47	28	49	28	41	24
26.	54	26	46	30	53	41	57	34	49	25	52	31	50	25	50	26	52	28	45	32
27.	42	20	32	20	45	28	47	23	32	18	40	16	36	26	34	18	35	21	33	13
28.	39	22	24	18	42	32	37	28	29	20	37	20	57	28	32	18	36	23	21	5
29.	56	22	33	8	51	30	49	23	43	20	50	17	57	28	48	18	48	21	40	17
30.	53	29	45	21	56	43	57	40	49	27	52	32	36	27	50	28	51	30	43	24
31.	29	2	43	8	44	23	52	15	27	— 2	34	0	38	26	28	0	30	5	32	0
Means.	39.5	20.5	35.3	19.5	48.5	31.8	43.5	25.6	35.5	19.0	37.1	17.3	43.0	25.4	36.4	19.1	38.7	22.5	32.4	14.5

^{a, b, c, etc.}, indicate respectively 1, 2, 3, etc., days missing from the record.^{§§} Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

CLIMATOLOGICAL DATA FOR JANUARY, 1913.

DISTRICT NO. 6, MISSOURI VALLEY.

MONTROSE W. HAYES, District Editor.

GENERAL SUMMARY.

As a rule, the weather was favorable throughout the district, and the month was marked by the absence of severe storms. The first half of the month was the colder, and over most of the drainage area, except the extreme eastern portion, some abnormally low temperatures were recorded. The first general cold wave appeared in Montana on the 4th, and low temperatures prevailed in the western half of the district until about the 20th and over most of the eastern half until about the 14th. The precipitation was unevenly distributed geographically and, with the exception of rain over the extreme eastern portion of the drainage area, was mostly in the form of snow. The sunshine was above the normal except in the extreme northwestern section; Denver, Colo., with 79 per cent of the total possible, had the greatest amount, and Havre, Mont., with 19 per cent, had the least. The general weather conditions were especially favorable for transportation interests, and with a few exceptions in some of the mountain regions there was less delay to trains on account of snow than in many years. The weather was also favorable for winter pasturage, and in most of the grazing sections stock fed on the range throughout the month; the only unfavorable feature was the lack of moisture.

TEMPERATURE.

The mean temperature ranged from 10.5° below the normal at Steele, N. Dak., to slightly more than 6° above the normal in the Bighorn Valley in Wyoming. The region of the greatest deficiency was the northern half of Montana and that portion of North Dakota north of the Missouri River; the region of the greatest excess embraced eastern South Dakota, most of Nebraska, and the country bordering on the lower Missouri. The extreme range in temperature for the district was 128° ; the highest reading being 74° at Crocker, Mo., and the lowest 54° below zero at Crazy Creek, Wyo., and Marstonmoor, N. Dak. The lowest temperatures, as a rule, occurred from the 4th to the 9th over the western half of the district, and from the 8th to the 13th over the eastern half. In the greater part of Wyoming, Montana, and North Dakota extremely low temperatures were recorded during the first 20 days; for most of the remainder of the month comparatively mild conditions prevailed. Zero temperatures were experienced over the entire district, except a small portion of Missouri. The highest temperatures were mostly recorded during the last week of the month; they were followed by a cold wave that set in on the 31st and covered the whole district.

PRECIPITATION.

The precipitation was unevenly distributed; it ranged from a trace at a number of stations in North and South Dakota, Nebraska, and Kansas to 7.25 inches at

Houston, Mo. Over a great part of the drainage area the month was a dry one; this was especially true of Nebraska, the eastern part of Kansas, western and northern Missouri, northern Iowa, southeastern Wyoming, and all of South Dakota except the Black Hills district. In most of the Nebraska counties north of the Platte River and throughout the eastern portion of South Dakota the total for the month was less than 0.10 inch. There were no well-defined wet periods in Wyoming and Montana, there being scattered precipitation on every day of the month at some station within both States, and the amount was uniformly distributed. Over the Dakotas the periods were somewhat more pronounced, but they were not well defined. Throughout Colorado most of the fall for the month occurred on the 4th and 5th; in Nebraska the wettest period extended from the 4th to the 7th. In Iowa, Kansas, and Missouri a well-marked period of precipitation lasted from the 4th to the 7th, and in Missouri wet periods also prevailed on the 10th-11th, 16th, 20th-23d, and 28th. Over most of the district practically the entire precipitation for the month was in the form of snow, the exception being the extreme lower portion, where it was almost all rain; at a number of stations in Missouri there was no snow at all, and at several mere traces occurred. The precipitation was above the normal over most of Montana, Wyoming, North Dakota, and that portion of Missouri lying to the east of the ninety-fourth meridian and south of the Missouri River. The greatest excess was at Houston, Mo., and the greatest deficiency was at Avalon, Mo.

The following are special remarks, made by the section directors, on snowfall in the Black Hills and in that portion of the Rocky Mountains drained by the Missouri River:

South Dakota.—In the more elevated portions of the Black Hills district—that is, in Lawrence and in parts of Butte, Meade, and Pennington Counties—the snowfall in January ranged from 9 to 34.5 inches, the average for the entire area being about 20 inches. At the close of the month the average amount remaining on the ground was about 16 inches. Reports indicate that the snow in the timber and gulches is fairly well packed.

Montana.—The snowfall during January was above the normal in most mountain districts, but in many of the ranges east of the Continental Divide it was not sufficient to offset the deficiency in November and December. The deficiency is most marked in the main range and other mountains forming the watershed of the Jefferson River. In the Gallatin, Madison, and Tobacco Root ranges there was somewhat more than the usual depth of snow on the ground at the end of the month; there was about the usual depth on the Milk River watershed, and less than the normal over the watersheds of the Musselshell and Yellowstone rivers. Most of the small streams were above the normal winter stages, indicating a surplus of water below the frost line.

Wyoming.—On the eastern elevations of the Bighorn conditions improved during January and at the end of the month there was a normal amount of snow stored in the timber. Less promising prospects prevail over the headwaters of the streams tributary to the Platte River, for the snow was not packed and its depth was less than is usual on January 31. The quantity of snow in the Yellowstone Park increased considerably, and its condition was reported good.

Colorado.—On the South and North Platte drainage areas the January snowfall did not depart much from the normal, but there was less than the usual fall during the earlier part of the winter and the depth of

snow on the ground at the end of January was less than is usual. Much drifting resulted from the prevailing high winds, which carried snow from the open to the timber and gulches. Owing to low temperatures the customary amount of settling did not occur, and the water content of the snow as compared with the depth was relatively small at the end of the month. There was, however, some benefit from the intense cold, for the amount of water that reached the trunk streams was reduced and there was a flooding of areas adjacent to the small streams, resulting in large accumulations of ice.

RIVERS.

The stages of the rivers during the first half of the month were below the normal, but after the 15th they increased gradually and by the end of the month they were nearly normal. From Pierre, S. Dak., southward the most open condition ever experienced in the Missouri

River prevailed. The river was temporarily blocked by ice at a number of places north of Glasgow, Mo., but the time was of short duration. There was considerable floating ice in the lower Missouri until the 20th, but very little after that date. The following special reports were received from stations on the Missouri River:

Pierre, S. Dak.—A narrow bridge of ice has formed over the Missouri River, over which teams pass occasionally; with this exception the channel is still open.

Yankton, S. Dak.—The river channel remained open practically the entire month; it was temporarily blocked on the 11th, 19th, and 31st. The ferry boat ran most of the month; this has never been practicable before in January.

Sioux City, Iowa.—The Missouri River is still open; this is extraordinary and is believed to be unprecedented for January. The channel has remained open all winter, except where it was temporarily frozen. Shore ice is 15 to 24 inches thick.

MONTHLY WEATHER REVIEW.

JANUARY, 1913

TABLE 1.—Climatological data for January, 1913. District No. 6, Missouri Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.				Precipitation, in inches.				Sky.				Prevailing wind direction.	Observers.		
				Mean.	Highest.	Lowest.	Greatest daily range.	Date.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of partly cloudy days.	Number of clear days.	Number of partly cloudy days.			
<i>Wyoming.</i>																			
Arapahoe.	Fremont.	5,500	3														Edw. L. Seymour.		
Barnum.	Johnson.	5,500	8	+ 6.1	48	17	- 26	6	50	0.38	+ 0.10	0.38	6.0	1	28	2	1	nw.	
Basin.	Bighorn.	3,862	14	23.9													Thos. Freeguard.		
Bennett.	Carbon.	3															O. J. Robertson.		
Big Creek Station.	do.	7,500	2	13.6	40 ^a	14	- 36 ^a	7	51 ^a	0.72		0.64	9.0	2	4 ^a	11 ^a	3 ^a	sw.	
Boyd.	Weston.	6,192			41	29	- 34	6	49	0.20		0.82	23.9	11	15	3	13	sw.	
Burns.	Laramie.	5,400	3	22.4		53	21 ^a	- 28	5	41	0.35	0.15	3.9	3	9	20	2	sw.	
Casper.	Natrona.	5,101	4														M. C. Cook.		
Centennial.	Albany.	3,074	10	17.4		40	14	- 31	6	36	1.10	0.20	11.5	11	10	11	10	w.	
Cheyenne.	Laramie.	6,088	42	24.4	- 1.2	54	14	- 26	6	35	0.55	+ 0.15	0.30	5.8	6	11	15	5	nw.
Chugwater.	Platte.	5,282	12	26.6	- 1.4	55	14	- 30 ^a	16	42 ^a	0.36	- 0.40	0.18	4.0	2	12 ^a	14 ^a	2 ^a	sw.
Clark.	Park.	4,320	8	23.4		51	28	- 15	6	58	0.76		0.31	8.5	7	9	10	12	w.
Cody.	do.	5,000	6	22.7		52	28	- 17	6	48	0.05		0.02	0.9	3	12	7	12	w.
Crazy Creek.	do.	6,828	2	10.2		35	28	- 54	6	49	1.41		0.25	20.0	14	6	3	Jas. Smith.	
Dome Lake.	Sheridan.	8,21	5	12.4		40	28	- 33	6	40	0.95		0.20	19.0	10	6	9	16	sw.
Douglas.	Converse.	4,793	4	23.2		52	29	- 36	7	44	0.22		0.06	4.1	5	21	6	4	w.
Dubois.	Fremont.	6,909	6	16.5		42	28	- 32	6	31	0.45		0.10	4.5	6	7	19	5	nw.
Eatons Ranch.	Sheridan.	4,600	8	21.2		57	28	- 19	5	54	0.91		0.27	10.9	8	17	10	4	nw.
Echeta.	Campbell.	4,200	4														M. R. Hunter.		
Elk Mountain.	Carbon.	8															Wm. Richardson.		
Encampment.	do.	7,322	4	19.8		42 ^a	28	- 30 ^b	7	38 ^b	0.15		0.08	1.9	5	48	20 ^b	5 ^b	sw.
Evart.	Natrona.	6,400	14	17.6		39	25 ^a	- 31	6	38	0.33		0.17	7.0	5	14	15	5	sw.
Fort Laramie.	Goshen.	4,270	35	25.7	+ 0.7	63	16	- 40	6	45	0.33	- 0.12	0.26	6.0	2	19	10	2	w.
Foxpark.	Albany.	9,015	3	7.2		34	14	- 52	6	52	0.70		0.20	10.2	5	9	13	9	sw.
Germania.	Bighorn.	4,312	2	17.9		53	25	- 27	6	46	0.30		0.15	4.5	5	10	13	8	nw.
Gillette.	Campbell.	4,546	7														S. D. Perry.		
Horse Creek.	Fremont.	1															U. S. Forest Service.		
Hunters Station.	Johnson.	8,000	7	16.4		42	29	- 27	6	46	1.24		0.38	18.0	9	20	3	8	w.
Hyattville.	Bighorn.	4,632	14	22.4	- 1.4	53	25 ^a	- 17	6	43	0.60		0.60	6.0	1	9	15	7	w.
Jireh.	Niobrara.	5,050	3														P. L. Ford.		
Kinnear.	Fremont.	22.4				60	24	- 20	67	44	0.05		0.05	0.7	1	15	3	3	sw.
Kirtley.	Niobrara.	9	22.4			53	14 ^a	- 26	6	38	0.27		0.27	3.0	1	17	8	6	nw.
Kirwin.	Park.	9,187	4														Do.		
Knowles.	Crook.	4,500	4														Wm. Booth.		
Lagrange.	Goshen.	4,720	3	26.9		55	14	- 25	6	35	0.41		0.15	4.2	5	15	12	4	w.
Lander.	Fremont.	5,272	21	20.6	+ 3.2	57	28	- 26	7	41	0.49	+ 0.06	0.42	2.2	4	11	12	8	sw.
Laramie.	Albany.	7,188	22														University of Wyoming.		
Leo.	Carbon.	6,878	11	17.6	- 2.7	41 ^a	14	- 28 ^a	6	36 ^d	0.17	- 0.45	0.13	1.5	2	94	3 ^d	15 ^d	sw.
Lolobama Ranch.	Park.	7,052	9	15.0		40	31	- 38	6	53	0.15		0.10	3.0	2	13	16	2	w.
Lovell.	Bighorn.	3,825	7	19.8		55	25	- 22	6	50	0.53		0.45	6.5	3	13	11	7	s.
Lusk.	Niobrara.	5,007	22	25.2	+ 2.2	53	13 ^a	- 31	6	45	0.34	- 0.26	0.12	3.0	3	14	10	7	sw.
Manville.	do.	5,050	3														L. C. Stoddard.		
Moorecroft.	Crook.	4,111	9	19.7		55	25	- 16	6	52	0.40		0.10	9.0	8	13	4	14	n.
Moore.	Albany.	6,000	12	26.2	- 1.3	52	14	- 28	6	35	0.36	- 0.08	0.11	10.0	6	9	16	6	w.
Newcastle.	Weston.	4,319	6	18.6		50	15	- 26	6	37	0.72		0.48	9.0	4	12	8	11	n.
Pathfinder.	Natrona.	5,735	7	21.5		46	28	- 20	6	36	0.05		0.03	4.0	3	14	10	7	sw.
Pinebluff.	Laramie.	5,038	10	23.0		56	28	- 28	6	39	0.38		0.36	4.2	2	17	11	3	sw.
Pine Ridge.	Crook.	1															U. S. Reclamation Service.		
Powell.	Park.	4,376	5	20.6		55	28 ^a	- 20 ^a	6	41	0.18		0.15	4.0	9	11	10	10	w.
Rawlins.	Carbon.	6,748	11	19.4	- 3.4	41	28 ^a	- 22	6	34	0.14	- 0.48	0.12	2.0	2	14	4	13	nw.
Rock River.	Albany.																Rock Creek Conservation Co.		
Rocky point.	Crook.	1															P. Woxen.		
Saratoga.	Carbon.	6,785	15	22.1	- 0.5	48	14	- 26	6	35	0.55	- 0.20	0.50	6.5	2	16	7	8	w.
Seven-mile Creek.	do.	2	16.4			39	25 ^a	- 37	6	42	0.77		0.50	9.5	4	16d	2d	9d	sw.
Sheridan.	do.	3,790	18	14.4	- 5.0	54 ^a	25	- 34 ^b	6	67 ^b	1.91	+ 1.04	0.66	19.6	12	4	12	15	nw.
Shoshone Dam.	Park.	5,385	7	26.1		52	28	- 13	6	48	0.45		0.23	5.7	6	21	4	6	w.
Soldiers Home.	Johnson.	4,835	21														Joel C. Smiley.		
South Pass City.	Fremont.	7,873	11	10.3		34	15 ^a	- 39	6	34	0.75		0.11	15.5	12	7	17	7	sw.
Sundance.	Crook.	4,750	1	16.6		45 ^a	18	- 25 ^b	6	50 ^b	1.95		0.45	26.0	10	9 ^a	5 ^a	16 ^a	w.
Thermopolis.	Hot Springs.	4,350	9	22.1		55	25	- 20	6	46	0.09		0.03	2.9	5	18	10	3	sw.
Thornton.	Weston.	1															A. L. Duhig.		
Ulm.	Sheridan.	4,443	1	18.4		48	25	- 23	6	45	0.75		0.21	11.5	6	13	11	7	nw.
Verona.	do.	4,360	4														O. A. Roode.		
Wheatland.	Platte.	4,700	2	24.5		55	14	- 27 ^a	7	36 ^a	0.27		0.32	1.32				A. de F. Snively.	
Winters Ranch.	Carbon.	7,400	3														Ira G. Wiant.		
Woodrock.	Sheridan.	2															U. S. Forest Service.		
Worland.	Washakie.	2	17.3			52	28	- 27	6	44	0.21		0.21	2.51				Prof. B. C. Buffum.	
Wynete.	Goshen.	4,207	6	25.0		57	29	- 36	7	49	0.11		0.08	0.5	2	10	19	2	nw.
Yellowstone Park.	Yellowstone Park.	6,200	25	13.5	- 4.1	36	25	- 32	6	31	2.60	+ 0.36	0.66	26.8	22	5	6	20	s.
Fairview Dome.	do.	7,000	8	16.2		51	26	- 47	6	63	2.10		0.48	26.0	9	10	10	11	sw.
Fountain.	do.	7,220	7	9.0		38	27	- 46	5	64	3.92		0.64	49.0	13	11	1	19	w.
Gallatin.	do.	2									1.92		0.40	24.0	7	7	9	15	n.
Grand Canyon.	do.	7,900	6														Do.		
Lake Yellowstone.	do.	7,733	9	7.4		29	15 ^a	- 48	6	44	3.78		0.50	38.5	17	6	1	24	nw.
Norris.	do.	7,525	9														Do.		
Riverside.	do.	6,500	7														Do.		
Sylvan Pass.	do.	7,000	6														Do.		
Thimble.	do.	7,772	7														Do.		
Tower Falls.	do.	6,250	4	11.8		38													

TABLE 1.—Climatological data for January, 1913. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevaling wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Montana—Continued.																				
Broadview.	Yellowstone.	6	16.6	54	28	-29	6	55	0.28	0.13	6.7	5	16	8	7	nw.	Thos. S. Hunt.			
Browning.	Teton.	3,980	9.2	47	29	-31	14	57	0.26	0.08	3.0	7	6	9	16	w.	U. S. Reclamation Service.			
Busby.	Rosebud.	9	12.6	48	3	-35	6	58	0.88	0.27	17.0	10	5	12	14	sw.	Rev. G. A. Linscheid.			
Busted.	Sweet Grass.	5	19.0	55	1	-28	13	58	0.56	0.24	12.3	8	10	5	13	nw.	T. H. Busteed.			
Canyon Ferry.	Lewis and Clark.	3,644	14	18.2	+ 0.6	49	2	19	13	42	0.20	- 0.22	0.08	3.0	4	12	9	sw.	W. L. Kirk.	
Cascade.	Cascade.	3,361	8	17.6	54	28	-30	67	67	1.12	0.26	12.9	10	15	1	13	sw.	Dr. E. E. James.		
Chessman Reservoir.	Lewis and Clark.	5,275	4	17.1	45	28	-31	6	39	2.17	0.35	31.0	15	21	1	9	nw.	C. D. Schmidt.		
Chester.	Hill.	3,140	10.4	45	2	-41	13	62	0.18	0.06	1.8	4	21	7	7	sw.	E. D. Keith.			
Chinook.	Blaine.	2,502	14	7.5	- 5.1	43	25	-40	67	53	0.86	+ 0.25	0.25	6.8	8	4	20	w.	T. O'Hanion Co.	
Clearkreek.	Park.	7	10.3	44	2	-30	27	6	46	0.23	0.65	25.5	6	13	11	6	sw.	Cortez Sedgewick.		
Clydepark.	Teton.	2	- 1.2	46	2	-34	187	58	1.20	0.10	4.5	4	10	6	15	w.	Frank Taylor.			
Conrad.	Meagher.	8	16.8	- 1.8	52	28	-30	29	58	1.11	+ 0.34	0.35	10.5	7	8	20	3	w.	Robert J. Kelly.	
Copper.	Rosebud.	3,041	30	5.1	- 2.3	42	20	-35	50	50	0.70	+ 0.23	0.20	5.5	5	12	14	nw.	Orville Harris.	
Crow Agency.	Valley.	1,927	11.3	- 5.3	46	29	-34	6	60	0.48	- 0.09	0.18	9.0	4	17	5	24	sw.	Harry Throssel.	
Culbertson.	Teton.	3,700	14	14.5	48	28	-24	19	60	1.43	0.40	24.7	15	10	3	18	w.	G. H. Coulter.		
Cut Bank.	Fergus.	3,500	23.6	+ 1.9	41	3	-16	6	37	0.61	- 0.30	0.20	6.1	5	15	7	9	sw.	Chas. N. Thomas.	
Denton.	Beaverhead.	5,147	4	12.6	53	2	-21	5	50	0.64	0.18	6.6	6	9	2	20	nw.	P. J. Griesenauer.		
Dillon.	Cascade.	6,000	4	12.9	53	2	-37	6	53	1.13	0.00	37.0	14	9	7	15	sw.	Prof. J. E. Monroe.		
Dry Wolf Camp.	Teton.	3,293	1	12.9	53	2	-37	6	53	1.13	0.05	5.9	7	9	3	9	sw.	Mrs. Harriet R. Eveleth.		
Dunkirk.	Gallatin.	6,000	4	12.5	53	2	-37	6	53	1.13	0.05	5.9	7	9	3	9	sw.	B. C. Protzman.		
East Gallatin River.	Custer.	12	13.5	- 2.0	45	14	-34	6	57	0.20	- 0.49	0.08	2.0	5	10	12	9	w.	John Eberhart.	
Fallon.	do.	2,208	12.2	49	28	-33	20	50	0.25	0.10	1.5	3	16	9	6	w.	William Freese.			
Findon.	Meagher.	6,000	4	18.2	43	28	-19	6	34	0.91	0.13	15.9	16	6	9	16	w.	Mrs. A. C. Gifford.		
Fish Creek.	Silver Bow.	8,500	3	12.6	38	28	-38	5	48	0.91	0.30	24.8	9	8	7	16	w.	Lewis Cameron.		
Flathead Creek.	Gallatin.	6,000	2	23.7	60	2	-21	5	50	0.64	0.18	6.6	6	9	2	20	nw.	O. B. Tilton.		
Forsyth.	Rosebud.	2,514	6	12.9	53	2	-37	6	53	1.13	0.75	11.0	4	2	15	14	ne.	Alta Williams.		
Fort Benton.	Chouteau.	2,630	33	10.0	- 8.9	46	28	-39	19	49	1.30	+ 0.57	0.60	13.0	4	15	9	7	sw.	H. Mackenzie.
Fort Shaw.	Cascade.	3,500	24	17.6	- 3.2	53	28	-32	19	69	1.12	+ 0.54	0.56	19.0	8	15	3	13	sw.	Jere Sullivan.
Fort William Henry Harrison.	Lewis and Clark.	4,004	9	19.0	+ 0.9	50	29	-20	6	33	0.50	0.00	2.0	3	6	6	22	nw.	U. S. Reclamation Service.	
Foster.	Yellowstone.	3	15.0	53	28	-32	61	59	0.57	0.15	3.7	9	10	13	8	nw.	Post Hospital.			
Garnett.	Fergus.	5,500	4	17.6	49	28	-33	20	50	0.25	0.10	1.5	3	16	9	6	w.	E. K. Bowman.		
Glasgow.	Valley.	2,092	6.6	- 0.3	49	29	-32	131	42	0.95	+ 0.47	0.50	2.5	5	15	9	7	w.	Thos. E. Scally.	
Glendive.	Dawson.	2,069	10.4	- 0.9	51	28	-29	20	45	0.43	- 0.29	0.15	4.7	4	13	11	7	s.	W. M. Leonard.	
Goldbutte.	Hill.	5	9.5	47	28	-39	13	55	1.03	0.38	11.0	6	14	7	10	w.	E. C. Leonard.			
Graham.	Custer.	7	13.4	48	2	-33	7	68	0.87	0.30	12.4	9	8	13	10	sw.	Joseph Berthelote.			
Great Falls.	Cascade.	3,350	21	17.9	- 5.1	55	28	-22	57	58	1.25	+ 0.56	0.24	24.0	11	3	23	5	sw.	J. S. Rue.
Harlowton.	Meagher.	4,165	5.1	51	29	-39	13	79	0.18	0.04	1.8	8	5	9	17	w.	Robert Deardorf.			
Havre.	Hill.	2,505	33	6.9	- 6.6	44	2	-36	20	60	1.46	+ 0.77	0.61	14.2	11	1	10	20	w.	Joseph Muir.
Helena.	Lewis and Clark.	4,110	33	19.6	- 0.4	50	28	-17	13	41	0.79	- 0.14	0.20	13.5	4	3	6	22	sw.	U. S. Weather Bureau.
Highwood.	Chouteau.	6	12.9	53	28	-32	20	6	33	0.26	0.60	29.6	14	7	3	21	sw.	Do.		
Hinsdale.	Valley.	2,168	1	17.6	56	28	-30	51	56	0.41	0.17	7.7	3	11	13	7	w.	W. S. McCord.		
Huntley.	Yellowstone.	3,014	10.6	56	28	-30	51	56	0.41	0.17	7.7	3	11	13	7	w.	D. L. Blankenship.			
Jordan.	Dawson.	2,092	1	17.6	50	1	-35	6	62	0.80	0.20	10.0	5	5	1	14	w.	U. S. Reclamation Service.		
Knobler Ranch.	Hill.	2	10.4	- 0.9	51	28	-29	20	45	0.43	- 0.29	0.15	4.7	4	13	11	7	w.	W. C. Henderson.	
Lewistown.	Fergus.	4,010	15	13.4	- 6.7	48	27	-27	19	65	1.31	+ 0.43	0.27	30.5	12	6	6	19	w.	F. H. Knoble.
Lonetree.	Chouteau.	3,280	7	16.0	56	28	-28	6	70	2.19	1.10	24.0	8	9	3	19	w.	W. W. Watson.		
Lothair.	Hill.	1	5.4	44	3	-38	20	48	0.82	0.30	8.0	3	1	1	1	1	w.	E. Wilson.		
Lytle.	Chouteau.	1	17.6	43	29	-37	20	45	0.37	0.12	7.0	6	8	6	17	w.	James H. Whiteley.			
Malta.	Valley.	2,240	7	7.0	41	28	-39	12	41	0.21	0.10	6.0	4	20	3	3	sw.	J. F. Fait.		
Medicine Lake.	do.	2	4.2	41	28	-39	12	41	0.21	0.04	6.0	2	5	4	3	sw.	U. S. Reclamation Service.			
Mildred.	Custer.	2,371	21	11.5	- 3.0	47	25	-34	5	41	1.80	+ 1.18	1.27	18.4	15	5	14	12	w.	J. S. Collier.
Miles City.	do.	4,845	6	25.2	51	25	-11	6	37	0.19	0.10	3.2	4	10	8	13	s.	U. S. Weather Bureau.		
Norris.	Madison.	6,345	4	17.6	46	28	-20	6	34	3.50	1.50	38.0	10	9	10	12	w.	Robert Olsen.		
Olsen Creek.	Jefferson.	1	17.6	46	28	-20	6	34	3.50	0.32	16.1	7	9	10	12	w.	G. W. White.			
Pinegrove.	Musselshell.	7,000	1	13.0	46	29	-30	20	56	0.30	0.17	6.0	8	15	9	7	w.	Mrs. T. Keirmeyer.		
Pistone Pass.	Custer.	2,757	1	13.0	44	28	-30	20	56	0.30	0.20	2.0	2	19	4	8	w.	C. C. Conser.		
Plevna.	do.	2,020	6.4	- 1.3	44	28	-36	21	42	0.20	- 0.45	0.20	2.0	1	19	4	8	w.	H. M. Cosier.	
Poplar.	Carbon.	5,548	13	16.7	- 2.5	46	3	-29	57	48	1.17	+ 0.30	0.31	22.1	8	5	15	11	sw.	I. A. Draper.
Renova.	Jefferson.	4,383	14	24.8	+ 3.6	52	25	-16	6	52	0.20	- 0.29	0.20	2.5	1	7	11	13	sw.	F. B. Elmer.
Ryegate.	Musselshell.	3,640	3	17.3	57	28	-36	67	71	0.56	0.30	12.0	4	12	2	17	w.	H. Scherfenberg.		
Savage.	Dawson.	2,050	10.0	49	28	-31	20	49	0.33	0.10	2.0	5	11	11	9	w.	U. S. Reclamation Service.			
Shelby.	Teton.	3,276	1	11.7	54	1	-31	121	58	0.34	0.24	1.5	3	13	10	8	w.	Olli C. Pjeldt.		
Sidney.	Dawson.	2	9.4	- 2.7	45	25	-35	11	66	1.63	+ 0.65	0.42	10.5	10	7	8	16	w.	Fred W. Arndt.	
Springbrook.	do.	11	5.4	39	25	-42	20	60	1.25	0.90	7.5	6	9	9	13	nw.	Mrs. H. L. Miller.			
Sunlit Farm.	Blaine.	1	5.4	39	25	-42	20	60	1.25	0.90	7.5	5	14	1	16	w.	C. R. Noyes.			
Sun River Canyon.	Teton.	4,650	1	17.4	62	29	-27	13	65	2.19	0.76	25.0	5	14	1	16	w.	U. S. Reclamation Service.		
Three Forks.	Gallatin.	4,066	23.0	16.2	52	28	-19	13	58	0.21	0.10	2.6	4	15	7	9	w.	C. E. Adams.		
Utica.	Fergus.	5,000	18	14.8	- 7.0	50	28	-28	20	56	1.45	+ 0.80	0.90	17.1	5	16	6	9	w.	P. W. Korell.
Valentine.	do.	6	9.8	46	29	-48	6	63	2.28	1.50	31.7	5	15	3	13	w.	B			

TABLE 1.—Climatological data for January, 1913. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmetted.	Number of rainy days.	Number of partly cloudy days.	Number of clear days.			
North Dakota—Contd.																				
Garrison.	McLean.	1,901	18	3.4	-3.8	38	28†	-43	12	38	0.70	+0.19	0.30	7.0	4	5	12	14	nw.	G. L. Robinson.
Haley.	Bowman.	5	9.6	—	50b	29	-33b	12	48b	0.10	0.10	2.5	2	5	10	14	nw.	A. O. Lawrence.		
Hettinger.	Adams.	2,253	5	11.0	—	52	25	-34	12	50	T.	T.	0	7	10	9	13	nw.	W. R. Lanxon.	
Howard (near).	Divide.	2,275	4	3.0	—	35	28†	-37	20	47	0.60	—	0.20	5.5	4	9	13	nw.	C. P. Amsbaugh.	
Jamestown.	Stutsman.	1,390	21	3.0	-4.2	39*	28	-36	12	47*	1.30	+0.76	0.50	13.0	8	16	4	11	nw.	Thos. Pettigrew.
Kren.	Mercer.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Fred Krause, Jr.	
Lamoine.	Kidder.	5	3.0	—	37	25†	-36	12	41	0.80	—	0.40	8.0	5	16	7	8	nw.	E. V. Virgin.	
McHenry (near).	Eddy.	1,509	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	John Knox.	
Marmarth (near).	Bowman.	4	12.2	—	48	25†	-27	13	52	0.14	—	0.05	8.2	5	13	8	10	w.	S. P. Grane.	
Marstonmoor.	Stutsman.	—	-1.2	—	36	29	-54	12	42	0.40	—	0.23	4.0	3	14	11	6	nw.	H. H. McCumber.	
Medora.	Billings.	2,225	19	18.4	+3.6	60	28	-44	11	50	1.97	+1.37	0.85	2.8	4	9	10	nw.	J. W. Hesser.	
Malville.	Foster.	1,590	15	1.0	-3.4	38b	29	-30	12	38	0.60	+0.26	0.40	6.0	3	11	7	13	nw.	J. P. Kidder.
Mott.	Hettinger.	6	7.7	—	52	28	-35	12	45	0.92	—	0.22	6.0	7	11	7	13	nw.	O. H. Opland.	
Napoleon.	Logan.	1,955	21	4.9	-1.4	38	26	-41	12	50	0.20	-0.31	0.08	2.0	3	15	3	13	w.	C. J. Hoof.
New England.	Hettinger.	2,400	19	10.0	-4.1	46	28	-33	11	45	0.50	+0.06	0.30	4.0	3	15	7	9	nw.	J. M. Connolly.
New Rockford.	Eddy.	1,531	2	3.5	—	39	2	-37	12	38	0.50	—	0.20	5.0	4	7	13	11	nw.	J. V. M. Sundberg.
New Salem.	Morton.	2,163	8	7.5	—	41	28	-35	12	49	0.40	—	0.20	4.0	3	12	13	6	nw.	J. Christiansen.
Orange.	Adams.	4	10.0	—	47	28	-31	12	41	0.10	—	0.10	1.0	1	19	5	7	nw.	J. E. Goforth.	
Ranger.	Billings.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	R. E. Sheriff.	
Steele.	Kidder.	1,857	16	-1.6	-10.5	40	28	-36	12	25	0.29	-0.06	0.10	4.7	5	16	3	12	nw.	H. S. Wood.
Turtle Lake.	McLean.	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	E. G. Renum.	
Washburn.	do.	1,731	15	5.0	-2.7	39*	25†	-37*	12	44	0.23	-0.20	0.15	2.8	3	17	11	3	nw.	W. R. Peterson.
Williston.	Williams.	1,875	34	5.0	-1.5	41	28	-35	12	42	0.52	-0.06	0.18	3.4	7	6	6	19	n.	U. S. Weather Bureau.
South Dakota.																				
Aberdeen.	Brown.	1,300	23	8.6	-1.0	49*	28	-25	20	55*	0.55	-0.26	0.40	5.5	2	9	16	6	w.	D. G. Gallett.
Academy.	Charles Mix.	14	21.8	+ 2.5	61	29	-19	6	54	0.11	-0.32	0.06	0.8	3	16	12	3	w.	I. T. Lothrop.	
Alexandria.	Hanson.	1,352	25	—	59	29	-29	—	T.	-0.50	T.	T.	0	16	9	6	nw.	C. H. Stillwell.		
Armour.	Douglas.	1,521	18	18.3 ^d	+ 1.2	60 ^d	25	-19 ^d	6†	54 ^d	T.	-0.60	T.	0	16	9	6	nw.	T. J. Markey.	
Bellefourche.	Butte.	3,000	5	23.5	—	54	25†	-29	7	68	0.54	—	0.32	5.0	5	7	16	8	nw.	U. S. Reclamation Service.
Brookings.	Brookings.	1,636	24	15.4	+ 3.4	53	25	-18	31	48	0.02	-0.41	0.02	0.2	1	13	6	12	nw.	Experiment Station.
Bryant.	Hamlin.	1,846	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	J. W. Ault.	
Camp Crook.	Harding.	3,000	20	10.2	-7.9	43	17	-39	6	51	2.02	+1.47	1.80	11.1	6	12	9	10	nw.	U. S. Forest Service.
Canton.	Lincoln.	1,248	18	18.7	+ 0.8	54	25†	-17	12	50	T.	-0.50	T.	0	22	3	6	nw.	John H. Holsey.	
Cascade Springs.	Fall River.	3,422	5	20.0	—	55	25†	-32	7	50	T.	-0.50	T.	0	23	6	11	w.	Fred Norenberg.	
Castilewood.	Hamlin.	1,685	8	13.9	—	50	25	-20	6†	67	0.01	—	0.01	0.3	1	8	5	18	nw.	M. N. Bradley.
Centerville.	Turner.	1,229	16	18.9	+ 3.0	58	25	-15	12	45	0.09	-0.41	0.03	0.9	4	5	14	12	nw.	Frank Williams.
Chamberlain.	Brule.	1,363	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	W. B. Van Horn.	
Clark.	Clark.	1,779	21	13.1	+ 2.3	53	16	-22	12†	48	0.09	-0.43	0.02	4.5	5	16	12	3	nw.	O. H. La Craft.
Cottonwood.	Stanley.	2,414	5	17.8	—	57	3	-33	6†	67	0.18	—	0.13	2.9	3	13	7	7	nw.	Experiment Station.
Custer.	Custer.	5,316	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	R. P. Imes.	
Daviston.	Perkins.	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	P. A. Sattler.	
Deadwood.	Lawrence.	4,535	4	20.2	—	52	25†	-27	6	56	2.05	—	1.00	18.5	8	14	5	12	nw.	R. E. Grimshaw.
Deerfield.	Pennington.	6,000	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Frank E. Miller.	
De Smet.	Kingsbury.	1,726	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	W. E. White.	
Dowling.	Stanley.	2,250	4	17.7	—	53	25†	-29	7	55	0.65	—	0.30	6.8	5	14	8	9	nw.	M. P. Dowling.
Dumont.	Lawrence.	6,195	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	A. B. Wood.	
Eagle Butte.	Dewey.	2,415	1	14.0	—	49	25	-23	12	45	0.22	—	0.15	2.2	2	8	20	3	nw.	Dr. John F. Chandler.
Eales.	Potter.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	A. H. Peterson.	
Elk Mountain.	Custer.	4,700	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	James E. Blaine.	
Ellingson.	Perkins.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Carl G. Moen.	
Englewood.	Lawrence.	5,723	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	W. P. Wagner.	
Eureka.	McPherson.	1,884	4	7.8	—	42	25	-36	12	40	0.10	—	0.05	1.5	3	9	20	2	nw.	Experiment Station.
Fairfax.	Gregory.	9	22.2	—	64	29	-21	6	52	0.36	—	0.31	4.1	2	21	10	0	nw.	U. S. Stevenson.	
Faulkton.	Faulk.	1,595	18	12.4	+ 1.9	51	25	-23	6	40	0.05	-0.27	0.05	0.5	1	20	5	6	nw.	Miss Belle Talcott.
Flandreau.	Moody.	1,565	23	18.8	+ 4.9	53	25	-18	31	43	0.05	-0.36	0.05	0.5	1	7	5	19	n.	D. R. McLean.
Forestburg.	Sanborn.	1,231	21	18.4	+ 5.6	62	28	-20	6	56	T.	-0.64	T.	0	22	8	1	nw.	S. S. Judy.	
Fort Meade.	Meade.	3,624	30	19.3	-2.3	55	26†	-31	12	67	0.93	+0.26	0.40	9.5	4	3	10	18	w.	Post Hospital.
Frederick.	Brown.	1,371	4	4.8	—	44	25	-31	12	67	0.07	—	0.05	0.7	2	6	9	16	nw.	J. E. Jeffers.
Gannvalley.	Buffalo.	14	19.3 ^d	+ 4.4	58 ^b	24	-23	10	39 ^d	T.	-0.64	T.	0	—	—	—	—	—	A. L. Hanson.	
Greenmont.	Lawrence.	6,430	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	H. C. Hoffbuh.	
Greenwood.	Charles Mix.	19	23.8	+ 2.7	65	29	-16	6	49	0.30	-0.25	0.15	2.2	3	12	13	6	nw.	T. C. Williamson.	
Hardingrove.	Stanley.	1	17.2	—	52	16	-28	13	60	0.26	—	0.21	3.2	4	17	10	10	nw.	Mrs. Laura Sinclair.	
Harley Ranger Station.	Lawrence.	6,000	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Mrs. Mary Schmidt.	
Harveys Ranch.	do.	6,282	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Jerome Harvey.	
Hermosa.	—	3,278	7	19.2	—	51 ^a	29	-25 ^a	5	63	0.24	—	0.22	3.0	2	13	14	4	n.	S. M. Booth.
Highmore.	Hyde.	1,890	20	16.2	+ 2.9	57	16	-24	6	46	0.05	-0.22	0.05	0.5	1	9	13	6	nw.	Experiment Station.
Hopewell.	Stanley.	3	16.4	—	56	25	-22	7	47	0.10	—	0.05	1.0	2	10	15	6	nw.	E. R. Myers.	
Howard.	Miner.	1,564	21	14.6	+ 1.6	56 ^d	25	-23 ^d	6	48	0.02	-0.31	0.02	0.5	1	12	17	2	nw	

TABLE 1.—Climatological data for January, 1913. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of partly cloudy days.	Number of cloudy days.			
South Dakota—Contd.																				
Plankinton.	Aurora.	1,528	19	7.5	—	44	25	— 36	12	44	0.05	— 0.40	0.05	0.5	1	10	17	4	sw.	
Pollock.	Campbell.	7	—	—	—	—	—	—	—	—	0.31	—	0.10	2.0	4	13	14	4	nw.	
Rapid City.	Pennington.	3,251	25	19.8	— 1.7	56	29	— 22	6	64	0.62	+ 0.18	0.24	5.6	6	8	14	9	w.	
Redfield.	Spink.	1,295	15	11.6	— 0.4	50	29	— 23	7	58	0.01	— 0.30	0.01	0.1	1	20	5	6	sw.	
Rochford.	Pennington.	5,228	3	—	—	—	—	—	—	—	0.86	—	0.27	16.1	10	7	18	6	nw.	
Rosebud.	Todd.	2,600	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Mrs. M. E. Doffenbaugh.	
Roslyn.	Day.	7	10.4	—	—	49	16	— 27	6	40	0.60	—	0.40	5.7	5	10	13	8	nw.	
Selby.	Walworth.	5	10.3	—	—	41 ^a	25	— 27 ^a	12	37 ^a	0.27	—	0.51	2.5	3	16	9	6	nw.	
Sioux Falls.	Minnehaha.	1,400	22	19.0	+ 4.7	55	25 ^a	— 18	31	43	0.05	—	0.04	1.0	2	11	14	6	s.	
Sisseton.	Roberts.	1,202	7	9.3	—	42 ^a	27	— 23	11	43 ^a	0.10	—	0.07	2.5	2	20	0	11	nw.	
Sorium.	Perkins.	2	12.3	—	—	52	21	— 30	6 ^a	53	0.42	—	0.18	7.0	3	13	11	7	nw.	
Spearfish.	Lawrence.	3,647	24	21.6	— 3.6	56	25	— 20	6	56	0.66	— 0.17	0.40	12.0	7	17	13	1	w.	
Stephan.	Hyde.	1,840	9	17.5	—	56	29	— 23	12	59	0.03	—	0.03	0.3	1	13	12	6	nw.	
Tama.	Meade.	3	11.1	—	—	45	29	— 39	6	54	0.01	—	0.01	0.1	1	9	18	4	nw.	
Timber Lake.	Dewey.	2,163	1	12.0	—	47	28	— 26	20	41	0.30	—	0.26	5.5	3	17	10	4	nw.	
Tyndall.	Bonhomme.	1,418	16	21.2	+ 4.3	61	25	— 14	6 ^a	66	0.04	—	0.42	0.04	1	18	10	3	nw.	
Vale.	Butte.	2,765	5	16.6	—	55	25 ^a	— 37	7	62	0.58	—	0.40	7.0	3	6	23	2	nw.	
Vermillion.	Clay.	1,222	12	21.5	+ 2.3	58	25	— 13	31	45	0.10	— 0.33	0.10	1.0	1	18	4	9	nw.	
Watertown.	Lawrence.	4,000	3	—	—	—	—	—	—	—	0.91	—	0.44	14.0	13	15	5	13	nw.	
Wentworth.	Codington.	1,735	19	10.1	— 0.1	50	16 ^a	— 19	6 ^a	51	0.10	— 0.39	0.07	1.5	2	9	9	13	nw.	
Wessington Springs.	Jerauld.	1,410	13	17.7	+ 4.0	58	29	— 18	31	41 ^a	T.	—	0.45	T.	0	25	4	2	nw.	
White Lake.	Aurora.	1,646	4	17.8	—	62 ^a	29	— 22 ^a	5	62 ^a	0.15	—	0.15	2.5	1	18	7	6	nw.	
Winnert.	Tripp.	2,000	1	17.8	—	62 ^a	29	— 22 ^a	5	62 ^a	0.25	—	0.15	2.5	2	15	10	6	sw.	
Wood.	Mellette.	—	—	—	—	—	—	—	—	—	0.08	—	0.48	0.4	9	4	9	13	nw.	
Yankton.	Yankton.	1,234	39	20.0	+ 4.5	60	29	— 13	31	41	0.08	—	0.48	0.9	4	9	13	9	nw.	
Minnesota.																			A. L. Doan.	
Pipestone.	Pipestone.	1,710	12	15.2	+ 1.5	52	25	— 18	31	46	T.	—	0.40	T.	T.	0	17	12	2	nw.
Colorado.																			C. A. Creel.	
Arriba.	Lincoln.	5,243	7	24.6	—	57	29	— 18	7	42	0.20	—	0.20	1.5	1	24	3	4	sw.	
Auldhurst.	Teller.	8,500	3	—	—	—	—	—	—	—	0.93	—	0.30	11.5	5	16	7	8	s.	
Bennett (near).	Arapahoe.	5,484	5	—	—	—	—	—	—	—	0.33	—	0.21	6.8	3	28	2	1	sw.	
Boulder.	Boulder.	5,347	17	30.6	— 3.4	58	28 ^a	— 22	7	42	0.49	+ 0.11	0.46	6.2	2	5	25	1	w.	
Burlington.	Kit Carson.	4,160	10	27.0	— 1.7	63	29	— 18	6	46	0.15	— 0.18	0.15	4.0	1	16	11	4	nw.	
Cassells.	Park.	8,445	3	—	—	—	—	—	—	—	0.52	—	0.29	2.5	3	23	4	4	w.	
Castro Rock.	Douglas.	6,220	21	25.2	— 2.8	60	3	— 37	6	63	0.36	— 0.04	0.26	12.5	3	21	6	4	se.	
Cheeseman.	Jefferson.	6,890	10	26.8	— 4.5	58	28	— 27	6	50	0.50	+ 0.32	0.15	5.0	4	14	14	3	s.	
Cheyenne Wells.	Cheyenne.	4,279	21	27.0	— 1.6	62	29	— 12	6	45	0.60	+ 0.43	0.33	9.5	4	26	2	3	sw.	
Corona.	Washington.	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Mrs. Dora M. Christopher.		
Denver.	Grand.	11,660	6	3.2	—	21	13 ^a	— 27	5	28	3.66	—	1.10	—	12	—	—	U. S. Weather Bureau.		
Edgewater.	Denver.	5,272	41	30.4	+ 1.3	59	28	— 21	6	39	0.36	— 0.06	0.25	5.8	6	17	12	2	sw.	
Estes Park Fish Hatch.	Jefferson.	5,450	5	28.4	—	60	14	— 26	6 ^a	51	0.33	—	0.31	6.0	2	16	12	3	w.	
Fort Collins.	Larimer.	8,000	4	—	—	—	—	—	—	—	0.45	—	0.20	9.0	4	12	9	10	Do.	
Fort Lupton.	Weld.	4,983	34	23.4	— 3.2	58	29	— 30	7	47	0.30	— 0.15	0.14	4.5	4	15	9	7	N. P. Levin, M. D.	
Fort Morgan.	Morgan.	4,319	15	23.0	— 2.2	60	29	— 29	7	55	0.25	+ 0.13	0.15	2.5	2	25	1	5	G. H. Thomson.	
Frances.	Boulder.	9,300	8	16.5	—	47	22	— 25	6	40	1.67	—	0.40	24.2	13	2	25	4	Colorado Agricultural Col'ge.	
Greeley.	Larimer.	7,500	3	21.2	—	47	28	— 36	6	47	0.69	—	0.35	8.5	4	19	5	7	R. W. Benedict.	
Georgetown.	Clear Creek.	8,550	11	—	—	—	—	—	—	—	0.45	— 0.06	0.19	8.8	5	12	9	10	Great Western Sugar Co.	
Grover (near).	Weld.	4,649	22	24.8	— 1.6	61	29	— 29	7	50	0.28	+ 0.07	0.15	3.5	2	19	9	3	C. W. Barry.	
Hartsell.	Park.	5,076	9	—	—	—	—	—	—	—	0.15	—	0.08	4.8	4	0	2	29	Do.	
Hawthorne.	Boulder.	8,892	4	—	—	—	—	—	—	—	0.81	—	0.38	17.0	4	16	13	2	N. P. Levin, M. D.	
Holyoke (near).	Phillips.	3,745	17	21.0	— 8.9	66	3	— 31	6	61	0.46	+ 0.30	0.28	7.0	2	16	8	7	G. H. Thomason.	
Idaho Springs.	Clear Creek.	7,543	13	24.6	— 4.0	48	25 ^a	— 29	6	36	0.30	— 0.02	0.08	7.2	7	12	15	4	sw.	
Julesburg.	Sedgwick.	3,465	—	—	—	—	—	—	—	—	0.09	—	0.05	1.0	2	8	19	2	Norman W. Fry.	
Kersey.	Weld.	4,571	—	—	—	—	—	—	—	—	0.15	—	0.15	3.0	1	21	8	2	H. L. Corbett.	
La Porte.	Larimer.	5,053	22	—	—	—	—	—	—	—	0.43	+ 0.05	0.20	7.0	3	—	—	—	Burton Reynolds.	
Le Roy (near).	Logan.	4,380	24	—	—	—	—	—	—	—	0.15	—	0.08	4.8	4	0	2	29	D. M. Porter.	
Longmont.	Boulder.	4,950	12	23.0	— 3.4	62 ^a	29	— 31 ^a	6	52	0.12	— 0.33	0.12	2.0	1	15 ^a	0	0	Emily Kleinkeene.	
Longs Peak (near).	Larimer.	8,600	18	21.4	— 2.3	47	3	— 25	6	54	0.68	+ 0.05	0.33	11.0	4	18	5	4	E. B. Chesebro.	
Merino.	Logan.	—	—	—	—	—	—	—	—	—	T.	—	T.	T.	0	20	7	4	A. C. Cauble.	
Moraine.	Logan.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	J. J. Willis.		
Platte Canon.	Larimer.	7,775	23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Great Western Sugar Co.	
St. Cloud.	Jefferson.	5,492	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Chas. Green.	
Weld.	Sedgwick.	7,750	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Great Western Sugar Co.	
Sedgwick.	Boulder.	10,500	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Enos A. Mills.	
Silver Lake.	Boulder.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Great Western Sugar Co.	
Spicer (near).	Jackson.	8,700	3	15.8	—	55	10	— 34	7	51	0.75	—	0.50	13.0	3	16	6	9	sw.	
Sterling.	Logan.	3,892	4	23.3	—	60	3 ^a	— 22	7	57	0.05	—	0.05	2.5	2	22	5	4	J. A. Keegan.	
Wadsworth.	Larimer.	5,206	10	28.1	— 3.1	65 ^a	3	— 30 ^a	6 ^a	58	0.30	+ 0.06	0.25	6.4	6	—	—	—	W. A. Sharpnack.	
Wray.	Yuma.	3,512	17	26.9	— 2.2	65	29	— 18	6	45	0.41	+ 0.11	0.16	5.0	3	8	12	11	J. L. Owen.	
Yuma.	—	4,138	22	—	—	—	—	—	—	—	0.15	— 0.26	0.03	3.5	3	16	12	3	Matthew Harr.	
Nebraska.																			John M. Cotton.	
Ainsworth.	Brown.	2,521	7	20.8	—	63	25	— 21	6	47	0.53	—	0.18	5.3	4	5	18	8	F. M. Weitzel.	
Albion.	Boone.	1,747	17	19.2	— 2.6	64	29	— 21	8	42 ^a	0.10	— 0.40	0.10	1.0	1	10	1	20	J. A. Keegan.	
Alliance.	Boxbutte.	3,968	20	22.6	— 1.1	55	29	— 29	7	49	0.05	—	0.50	1.0	1	20	1	1	sw.	
Alma.	Harlan.	1,939	16	22.6	— 3.6	68	29	— 24	8	48	0									

TABLE 1.—Climatological data for January, 1913. District No. 6—Continued.

Stations.	Counties.	Elevation, feet. ¹	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of part cloudy days.	Number of clear days.		
Nebraska—Continued.																			
Blake.	Garfield.	1	8	20.2	—	59	29	— 17	8	47	0.05	0.05	1.0	1	2	n.w.	H. C. Mead.		
Bloomfield.	Knox.	8	15	—	—	—	—	—	—	—	0.20	2.3	3	15	13	3	n.w.	Dr. L. C. Bleick.	
Bradshaw.	York.	1,715	15	—	—	—	—	—	—	—	0.54	+ 0.12	0.30	5.2	4	9	21	E. C. Roggy.	
Brester.	Blaine.	1	—	—	—	—	—	—	—	—	0.08	—	0.02	—	4	17	9	5	n.w.
Bridgeport.	Morrill.	3,655	16	26.5	+ 1.0	60	29	— 26	7	50	0.25	— 0.19	0.10	2.5	3	20	9	2	n.w.
Broken Bow.	Custer.	2,477	19	20.4	— 4.2	67	28	— 12	5	53 ^b	0.07	— 0.20	0.07	2.0	1	20	3	8	n.w.
Bruning.	Thayer.	1,583	2	—	—	—	—	—	—	—	0.36	—	0.26	3.7	5	13	14	R. V. McCall.	
Burge.	Cherry.	2,674	7	23.2	—	57	15 ^c	— 23	6	57	T.	T.	T.	0	20	5	6	Henry Middendorf.	
Burwell.	Garfield.	2,180	20	—	—	64	29	— 22	6	53	0.35	—	0.25	3.5	2	17	13	H. A. Davis.	
Butte.	Boyd.	7	22.0	—	—	—	—	—	—	—	—	—	—	2.5	2	—	—	W. L. McMullen.	
Hall.	—	1,851	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	W. Whida.	
Cairo.	Custer.	2,555	21	24.9	0.0	65	29	— 19	8	50 ^b	0.15	— 0.20	0.15	2.0	1	18	6	s.	
Callaway.	Furnas.	2,258	6	25.1	—	66	29	— 14	8	48	0.40	—	0.20	4.0	2	20	4	n.w.	
Cambridge.	Platte.	1,442	20	21.0	— 1.5	62	15 ^c	— 20	8	62	0.25	— 0.12	0.10	2.5	3	18	6	n.w.	
Crete.	Saline.	1,388	30	23.6	+ 1.7	62	29	— 17	7	38	0.49	— 0.08	0.31	5.5	3	13	7	11	Doane College.
Culbertson.	Hitchcock.	2,565	25	26.1	—	66	29	— 10	6	45	0.05	— 0.28	0.05	1.0	1	18	4	w.	
Curly.	Sioux.	—	3	23.0 ^c	—	53	14 ^c	— 30	6	50 ^d	0.32	—	0.12	5.0	3	10	16	A. L. Rush.	
Curtis.	Frontier.	2,553	15	26.2	— 0.4	69	29	— 15	8	46	0.06	— 0.36	0.02	0.6	3	25	2	n.w.	
David City.	Butler.	1,619	24	23.0	+ 1.4	60	29	— 14	12	37	0.84	+ 0.08	0.60	8.4	5	11	8	12	S. Clingman.
Du Bois.	Pawnee.	1,074	8	—	—	—	—	—	—	—	0.76	—	0.70	7.5	3	16	6	n.w.	
Dumas.	Garfield.	4	22.2	—	—	60	29	— 19	12	43	0.15	—	0.15	1.5	1	15	10	O. M. Backus.	
Elm Creek.	Buffalo.	2,268	5	—	—	—	—	—	—	—	0.17	—	0.17	—	—	—	—	Emile Raes.	
Elsie.	Perkins.	3,382	5	—	—	—	—	—	—	—	0.20	—	0.20	2.0	1	1	—	E. L. Sutton.	
Ericson (near).	Garfield.	2,029	21	—	—	—	—	—	—	—	0.10	— 0.40	0.10	2.0	1	17	13	J. F. Brittain.	
Ewing.	Holt.	1,888	21	21.1	—	73	29	— 18	8	48	0.10	— 0.31	0.10	1.0	1	—	—	J. A. Bodyfield.	
Exeter.	Fillmore.	1,607	1	—	—	—	—	—	—	—	0.40	—	0.40	4.0	1	—	—	G. H. Benson.	
Fairbury.	Jefferson.	1,316	37	24.0	— 1.6	64	29	— 21	8	43	0.43	— 0.28	0.30	4.8	3	17	9	5	Frank Ainsworth.
Fairmont.	Fillmore.	1,641	20	20.2	— 3.1	63	29	— 20	8	42	0.52	— 0.07	0.25	5.2	4	12	13	W. F. Cramb.	
Falls City.	Richardson.	898	19	27.9	— 0.3	61	25 ^c	— 11	8	41	0.10	— 0.58	0.09	1.0	2	14	11	C. B. & Q. R. Co.	
Fort Robinson.	Dawes.	3,764	30	21.6	— 1.5	59	29	— 25	6	62	0.27	— 0.37	0.10	1.2	3	12	7	12	Dr. J. C. Utzky.
Franklin.	Franklin.	1,820	25	24.6	0.0	68	29	— 25	8	46	0.10	— 0.27	0.10	1.0	1	14	12	Post surgeon.	
Fremont.	Dodge.	1,203	32	21.0	+ 1.7	60	29	— 18	8	38	0.15	+ 0.29	0.80	11.5	3	14	9	A. R. Peck.	
Fullerton.	Nance.	1,629	12	21.0	—	62	29	— 19	8	38	0.30	— 0.41	0.20	3.0	2	19	9	3	Ernest Hahn.
Geneva.	Fillmore.	1,633	22	24.5	+ 0.2	63	29	— 17	8	38	0.63	+ 0.20	0.30	6.1	5	14	8	F. M. Flory.	
Genoa.	Nance.	1,584	38	22.8	+ 3.2	62	25 ^c	— 17	8	40	0.25	— 0.40	0.08	2.5	4	19	7	F. W. Parsons.	
Gordon.	Sheridan.	3,550	13	20.5	—	61	29	— 29	6	51 ^b	0.40	— 0.15	0.30	3.0	2	13	14	G. F. Williams.	
Gosper.	Thomas.	—	10	—	—	—	—	—	—	—	0.20	— 0.06	0.20	2.0	1	17	11	E. H. Stoll.	
Gothenburg.	Dawson.	2,557	19	24.8	— 0.2	66	29	— 15	8	59	0.30	— 0.12	0.20	3.0	2	18	4	n.w.	
Grand Island.	Hall.	1,860	22	23.8	— 0.6	62	29	— 10	6	33	0.41	— 0.08	0.33	4.0	2	16	1	E. A. Barnes.	
Grant.	Perkins.	3,405	10	24.5	—	64	29	— 20	6	45	0.07	— 0.13	0.05	0.7	2	20	6	Anson K. Holmes.	
Greeley.	Greely.	2,021	18	23.2	—	58	25	— 10	12	37	0.40	— 0.04	0.25	3.9	7	14	15	W. E. Morgan.	
Guern Rock.	Webster.	1,646	13	—	—	—	—	—	—	—	0.45	— 0.01	0.30	4.5	2	12	8	J. S. Marsh.	
Halgier.	Dundy.	3,258	19	—	—	—	—	—	—	—	0.45	+ 0.27	0.40	4.5	2	—	—	J. L. Pember.	
Halsey.	Thomas.	2,695	10	24.2	+ 1.0	62	29	— 17	6	52	0.09	— 0.28	0.03	2.0	4	22	6	3	Bureau of Forestry.
Hartington.	Cedar.	1,309	22	20.3	+ 2.1	60	28	— 14	12	53	0.07	— 0.64	0.05	0.7	2	16	7	D. E. Ewing.	
Harvard.	Clay.	1,812	24	23.2	— 0.4	61	29	— 16	8	36	0.51	+ 0.07	0.20	7.0	3	11	5	Bert Gregg.	
Hastings.	Adams.	1,932	22	22.4	— 1.6	63	29	— 16	8	41	0.47	+ 0.02	0.20	4.5	5	24	2	C. B. & Q. R. Co.	
Hayes Center.	Hayes.	—	20	25.0	—	65	29	— 13	6	43	0.65	+ 0.20	0.40	6.5	5	20	8	C. A. Ready.	
Hay Springs.	Sheridan.	3,821	22	22.8	+ 2.3	57	29	— 26	7	61	0.55	— 0.09	0.20	4.5	4	11	5	A. Kadlecik.	
Hebron.	Thayer.	1,458	28	24.8	+ 1.0	65	29	— 25	8	40	0.40	— 0.28	0.30	4.0	2	—	—	Dr. C. M. Easton.	
Hemingford.	Boxbutte.	4,286	4	—	—	—	—	—	—	—	0.05	—	0.02	4	—	—	—	A. S. Enyeart.	
Hershey.	Furnas.	2,231	9	—	—	—	—	—	—	—	0.40	—	0.40	4.0	1	—	—	T. L. Jones.	
Hillside.	Lincoln.	2,902	2	—	—	—	—	—	—	—	0.07	—	0.05	2	19	6	6	G. F. Palmer.	
Holdrege.	McPherson.	3,484	4	24.0	—	63	29	— 22	7	56	0.12	—	0.10	3.3	3	14	9	Mrs. M. R. Lloyd.	
Hooper.	Phelps.	2,324	23	24.0	— 1.7	65	29	— 12	8	41	0.21	— 0.18	0.20	2.5	2	12	10	C. B. & Q. R. Co.	
Hull (near).	Dodge.	1,228	15	21.0	— 0.7	60	25 ^c	— 21	8	35	0.80	+ 0.40	0.40	8.0	3	8	21	Dr. W. H. Hefne.	
Imperial.	Banner.	—	2	—	—	—	—	—	—	—	0.14	—	0.14	2.0	1	21	2	Mrs. W. P. Miller.	
Kearney.	Chase.	3,278	21	26.0	— 0.6	65	29	— 16	6	40	0.15	— 0.30	0.10	1.5	2	17	12	Robt. Malcolm.	
Kimball.	Buffalo.	2,146	24	24.8	— 0.7	63	29	— 15	8	41	0.30	— 0.14	0.20	3.0	2	15	13	City engineer.	
Kirkwood.	Kimball.	4,697	24	24.3	— 2.9	58	29	— 26	5	48	0.20	— 0.23	0.10	2.0	2	19	10	F. J. Bellows.	
Kowanda.	Rock.	—	18	23.4	+ 1.8	64	29	— 21	6	56	0.30	— 0.20	0.20	3.0	3	16	11	Mrs. C. Arter.	
Lexington.	Garden.	—	4	—	—	—	—	—	—	—	0.24	—	0.20	2	—	—	—	Geo. W. Hulse.	
Lincoln.	Dawson.	2,385	24	24.0	— 0.9	61	25	— 10	6	43	0.17	— 0.31	0.17	4.5	5	14	6	Robt. Chadwick.	
Lodgepole.	Lancaster.	1,189	32	24.0	+ 2.8	63	29	— 11	12	37	0.31	— 0.31	0.17	4.5	5	11	7	U. S. Weather Bureau.	
Loup City.	Cheyenne.	3,820	14	26.8	+ 1.2	62	29	— 23	6	48	0.10	— 0.30	0.10	1.0	1	21	7	R. T. Kidney.	
McCook.	Sherman.	2,067	19	21.9	— 1.7	61	29	— 20	8	42	0.15	— 0.07	0.15	1.5	1	25	5	Harriet Hayhurst.	
McCool Junction.	Red Willow.	2,506	19	27.6	+ 0.3	66	29	— 15	9	53	0.00	— 0.22	0.00	0.0	0	24	5	C. G. Cogizer.	
Madison.	York.	1,575	15	—	—	—	—	—	—	—	0.60	+ 0.18	0.60	6.0	1	—	—	L. L. Slagel.	
Marquette.	Madison.	1,585	20	18.8 ^c	— 2.9	60	25												

TABLE 1.—Climatological data for January, 1913. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Sky.	Prevailing wind direction.	Observers.
				Mean.			Departure from the normal.			Highest.			Lowest.									
				Date.	Date.	Date.	High.	Low.	Date.	High.	Low.	Date.	High.	Low.	Date.	High.	Low.	Date.	High.	Low.	Sky.	Prevailing wind direction.	Observers.
Nebraska—Continued.																						
Santee.	Knox.	1,357	19	20.5	.....	63	29	— 27	8	44	0.49	+ 0.04	0.23	4.9	3	12	10	9	nw.	A. M. MacGregor.	
Schuyler.	Colfax.	3,882	24	27.8	+ 2.0	60	29	— 29	7	51	0.20	- 0.27	0.07	1.9	4	20	8	3	w.	R. O. Brownell.		
Scottsbluff.	Scotts Bluff.	1,435	23	22.6	- 1.6	62	29	— 21	8	36	0.50	- 0.03	0.42	5.0	2	20	5	6	.....	A. B. McCoskey.	
Seward.	Seward.	4,090	22	.....	.....	.....	.....	.....	.....	0.35	- 0.14	0.10	3.0	4	27	0	4	nw.	C. B. & Q. R. R. Co.	
Sidney.	Cheyenne.	1,052	1	.....	.....	.....	.....	.....	.....	0.70	—	0.35	4.0	4	18	5	8	nw.	John P. Fischer.	
Springfield.	Sarpy.	19	23.5	+ 2.6	61	29	— 20	6	53	0.20	- 0.29	0.20	2.0	2	20	5	7	nw.	L. A. Bates.			
Springview.	Keyapaha.	1,472	21	17.0	- 2.8	60	25	— 23	8	64	0.50	0.00	0.30	3.0	3	20	11	0	nw.	C. L. Phelps.		
Stanton.	Stanton.	2,804	17	.....	.....	.....	.....	.....	.....	0.30	+ 0.03	0.30	3.0	1	12	12	12	.....	Alfred Pont.	
Stratton.	Hitchcock.	1,574	26	24.1	+ 0.5	60	25	— 20	8	43	1.12	+ 0.36	0.70	10.0	6	15	6	10	se.	Miss Stella Vennum.		
Superior.	Nuckolls.	1,059	20	.....	.....	.....	.....	.....	.....	0.82	+ 0.25	0.50	6.5	6	19	7	5	nw.	F. V. Bishop.	
Syracuse.	Otoe.	1,023	24	.....	.....	.....	.....	.....	.....	0.72	- 0.12	0.30	6.0	5	15	9	7	.....	W. N. Hunter.	
Table Rock.	Pawnee.	1,113	32	.....	.....	.....	.....	.....	.....	0.70	- 0.02	0.30	7.0	3	12	12	7	nw.	E. D. Howe.	
Tecumseh.	Johnson.	1,060	22	20.8	- 0.6	58	25	— 18	8	40	0.70	- 0.27	0.40	6.0	1	20	14	8	nw.	L. E. Pratt.		
Tekamah.	Burt.	2,613	24	21.0	+ 2.8	58	29	— 19	6	49	0.15	- 0.37	0.05	1.4	6	13	7	11	nw.	Dr. A. D. Nesbit.		
University Farm.	Lancaster.	2,997	7	.....	.....	.....	.....	.....	.....	0.80	+ 0.18	0.30	8.0	4	20	6	5	sw.	S. W. Perin.	
Valentine.	Cherry.	1,187	10	.....	.....	.....	.....	.....	.....	0.30	- 0.25	0.20	2.9	3	19	6	6	s.	U. S. Weather Bureau.	
Wahoo.	Saunders.	1,387	19	20.3	+ 0.1	59	25	— 19	8	41	0.29	- 0.25	0.40	6.0	1	20	10	1	n.	W. T. Mauck.		
Wakefield.	Dixon.	11	18.3	.....	.....	.....	.....	.....	.....	0.30	- 0.29	0.30	3.0	1	17	3	11	.....	I. H. Weaver.	
Walther.	Thurston.	2,99	7	.....	.....	.....	.....	.....	.....	0.35	+ 0.11	0.30	3.5	2	1	1	6	.....	G. A. Dudley.	
Watertown.	Buffalo.	2,935	13	.....	.....	.....	.....	.....	.....	0.35	- 0.23	0.20	6.5	3	27	2	2	.....	R. E. Swift.	
Wauneta.	Chase.	1,080	34	23.7	.....	61	25	— 25	8	46	0.42	- 0.48	0.18	5.2	4	17	3	11	nw.	C. D. Fuller.	
Weeping Water.	Cass.	1,313	15	21.6	0.0	60	25	— 19	8	37	0.28	- 0.33	0.20	6.5	3	27	2	2	.....	S. W. Orton.	
Westpoint.	Cuming.	1,380	16	.....	.....	.....	.....	.....	.....	0.65	+ 0.13	0.40	6.5	3	14	11	6	nw.	J. C. Elliott.	
Wisner.	do.	1,633	25	24.2	- 0.5	64	29	— 19	8	36	0.85	- 0.13	0.40	6.5	3	14	11	6	nw.	F. C. Evans.		
York.	York.	1,180	19	20.0	- 0.3	54	29	— 20	8	37	0.50	- 0.74	0.20	5.0	3	20	4	7	n.	A. T. Glauque.		
Iowa.																						
Afton.	Union.	1,212	19	24.2	+ 1.5	53	29	— 11	12	35	1.23	+ 0.34	0.50	8.5	4	6	12	13	sw.	N. W. Rowell.		
Allerton.	Wayne.	11	25.4	+ 3.5	54	29	— 12	12	39	1.03	- 0.39	0.20	8.0	6	17	8	6	n.	Maude Chase.			
Alton.	Sioux.	1,305	8	18.0	.....	53	25	— 16	8	41	0.20	- 0.20	0.10	2.0	3	23	6	2	sw.	W. S. Slagle.	
Atlantic.	Cass.	1,163	22	21.8	+ 1.4	53	29	— 16	12	36	0.89	+ 0.13	0.31	7.6	6	11	8	12	sw.	Thos. H. Whitney.		
Audubon.	Audubon.	1,301	19	21.3	+ 2.4	52	29	— 13	8	31	0.93	+ 0.28	0.61	9.3	3	13	7	11	sw.	Geo. E. Kellogg.		
Bedford.	Taylor.	13	23.6	- 0.2	62	25	— 18	12	45	0.83	- 0.27	0.50	7.7	6	17	6	8	nw.	E. E. Healy.			
Centerville.	Appanoose.	1,013	3	26.1	.....	56	17	— 10	12	38	0.99	—	0.40	9.5	6	22	6	3	sw.	Gordon Peacock, jr.	
Chariton.	Lucas.	1,042	18	23.5	- 0.2	54	29	— 14	12	38	0.65	- 0.67	0.35	6.0	2	19	10	2	s.	C. C. Burr.		
Clarinda.	Page.	1,009	23	20.4	- 2.1	56	29	— 15	12	46	1.15	+ 0.17	0.35	10.3	7	15	10	6	s.	A. S. Van Sandt.		
Corning.	Adams.	1,117	21	21.2	- 0.7	53	25	— 13	8	48	1.38	+ 0.47	1.00	12.0	3	19	8	4	sw.	Jerome Smith.		
Corydon.	Wayne.	1,101	20	25.4	+ 2.1	55	29	— 13	12	36	0.79	- 0.70	0.20	10.0	5	9	14	8	nw.	May C. Miller.		
Council Bluffs.	Pottawattamie.	990	3	24.2	.....	57	29	— 25	8	44	1.20	—	0.40	12.0	6	16	6	9	nw.	B. W. Crossley.	
Creston.	Union.	1,312	8	18.8	.....	56	29	— 13	12	43	0.80	—	0.30	6.5	6	16	6	9	nw.	O. J. Colby.	
Cumberland.	Cass.	14	20.0	—	.....	.....	.....	.....	.....	0.90	+ 0.05	0.40	9.0	4	16	5	10	sw.	J. H. Reppert.	
Denison.	Crawford.	1,180	19	20.0	- 0.3	54	29	— 20	8	37	0.50	- 0.74	0.20	5.0	3	20	4	7	n.	W. C. Van Ness.		
Elliott.	Montgomery.	8	23.2	.....	.....	48	16	— 8	8	43	1.05	—	0.60	11.8	6	14	9	8	sw.	C. H. Westrope.
Greenfield.	Adair.	21	21.8	+ 0.5	55	29	— 13	12	37	1.18	+ 0.23	0.60	11.8	4	19	2	sw.	R. B. Oldham.				
Harlan.	Shelby.	1,182	14	22.4	+ 1.2	54	29	— 19	12	35	0.64	- 0.02	0.21	6.0	4	19	8	4	s.	C. A. Reynolds.		
Inwood.	Lyon.	1,474	9	17.6	.....	58	29	— 17	12	51	0.11	—	0.08	1.0	1	19	8	4	nw.	F. B. Hanson.	
Lake Park.	Dickinson.	1,479	18	20.0	.....	53	25	— 15	12	44	0.20	—	0.40	7.5	5	20	0	5	s.	A. E. Woodruff.	
Lamoni.	Decatur.	1,120	6	24.9	.....	55	16	— 10	12	36	0.54	—	0.30	1.0	3	20	0	11	.....	T. J. Fitzpatrick.
Larrabee.	Cherokee.	1,266	23	19.6	+ 0.4	54	25	— 13	12	40	0.04	—	0.50	0.02	4	7	16	8	nw.	R. C. Carnahan.		
Le Mars.	Plymouth.	1,224	17	23.3	+ 0.4	54	25	— 13	12	40	0.04	—	0.50	0.02	3	17	8	4	sw.	G. A. Clarke.		
Lenox.	Taylor.	1,250	18	23.3	+ 0.0	52	16	— 11	12	37	0.83	+ 0.07	0.60	8.3	6	19	6	15	nw.	J. L. Hurley.		
Leon.	Decatur.	1,120	11	24.4	+ 2.2	54	16	— 12	12	35	0.68	- 0.20	0.30	6.0	4	10	6	15	nw.	Morris Gardner.		
Little Sioux.	Harrison.	928	4	21.1	+ 1.8	55	29	— 19	8	38	0.78	- 0.32	0.40	7.5	5	12	13	6	nw.	Geo. H. Gibson.		
Logan.	Ringold.	1,236	20	24.8	+ 1.5	52	16	— 12	12	36	0.55	- 0.69	0.27	3.0	4	16	9	6	s.	Glenn H. Stern.		
Mount Ayr.	Clarke.	1,216	22	23.2	+ 1.8	56	29	— 13	12	38	0.63	- 0.31	0.32	6.9	5	16	8	6	nw.	Alex Maxwell.		
Murray.	Page.	1,046	1	24.4	.....	55	29	— 15	12	41	0.37	—	0.22	8.0	4	19	2	10	nw.	J. M. Darby.	
Northboro.	Sac.	1,356	16	20.0	- 0.4	55	25	— 12	8	38	0.22	- 0.19	0.10	3.2	3	23	5	3	nw.	E. Starner.		
Onawa.	Monona.	1,051	13	22.1	- 0.5	59	25	— 10	8	36	0.70	+ 0.04	0.40	7.0	3	19	10	2	nw.	C. G. Perkins.		
Pacific Junction.	Mills.	960	14	22.4	- 0.9	54	25	— 20	8	41	0.65	+ 0.11	0.44	6.5	4	8	18	5	n.	H. H. McCartney.		
Rock Rapids.	Lyon.	1,358	14	20.0	.....	54	25	— 23	8	43	0.90	—	0.80	9.0	2	15	8	8	ne.	W. C. Wyckoff.	
Sheldon.	O'Brien.	1,422	13	18.1	+ 0.5	54	25	— 15	12	48	0.06	- 0.53	0.06	0.8	1	T. W. Sherman.	
Sibley.	Osceola.	1,212	20	14.0	0.9	54	25	— 12	8	40	0.13	- 0.41	0.05	1.3	4	14	9	8	sw.</td			

TABLE 1.—Climatological data for January, 1913. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.				Precipitation, in inches.				Sky.				Observers.			
				Mean.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmetted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of overcast days.		
Kansas—Continued.																			
Hays.	Ellis.	2,000	45	26.4	-3.7	70	29	-21	8	45	0.36	-0.25	0.36	4.0	1	15	11	5	ne.
Hill City.	Graham.	2,134	5	29.3	.....	70	29	-12	8	48	0.20	.....	0.10	2.0	2	13	14	4	C. A. G. Inlow.
Horton.	Brown.	1,188	24	26.6	-0.5	61	25†	-10	8	39	0.59	-0.39	0.36	7.0	3	14	9	8	Mrs. S. C. Belden.
Hoxie.	Sheridan.	2,700	14	28.7	-1.0	68	29	-9	8	44	0.30	0.00	0.20	3.0	2	13	11	7	I. L. Vinson.
Lawrence.	Douglas.	997	45	29.2	+2.6	62	29	-7	8	40	0.45	-0.79	0.21	3.9	3	17	7	7	Prof. H. P. Cady.
Leavenworth.	Leavenworth.	913	69	31.2	+5.8	61	29	-4	6†	40	0.30	-0.80	0.20	4.2	2	21	10	10	Dr. A. F. Yohe.
Lebanon.	Smith.	1,812	15	24.6†	-2.7	65†	29	-19	8	42†	0.40	0.00	0.40	4.0	1	24†	1†	24	E. V. Bower.
Leoti.	Wichita.	3,300	10	27.3	.....	66	29	-12	8	53	0.04	.....	0.04	1.5	1	20	7	4	L. E. Gorsuch.
Lincoln.	Lincoln.	1,374	1	27.2	.....	72	29	-24	8	48	0.35	.....	0.34	5.0	1	17	7	7	R. W. Greene.
Lindsborg.	McPherson.	1,333	7	29.2	.....	70	29	-20	8	49	0.20	.....	0.10	2.0	2	14	11	6	A. J. Fredrickson.
McCracken.	Rush.	2,139	1	29.2	.....	70	29	-20	8	49	0.20	.....	0.10	2.0	2	14	13	4	E. D. Floyd.
Minneapolis.	Ottawa.	1,259	23	27.6	-0.8	63	29	-22	8	42	0.37	-0.14	0.27	5.5	2	18	4	9	J. L. Steele.
Moran.	Allen.	1,098	17	32.4	+0.7	66	19	-7	8	38	0.98	-0.23	0.41	2.2	6	15	6	10	C. J. Norton.
Natoma.	Osborne.	1,834	4	29.2	.....	61	29	-19	8	42	0.46	.....	0.25	5.0	2	24	7	0	C. O. Hunt.
Norton.	Norton.	2,284	15	26.1	-0.9	64	29	-10	12	47	0.20	-0.26	0.10	2.0	2	14	13	4	Sim Sleefel.
Oberlin.	Decatur.	2,539	26	29.2	.....	63	29	-21	8	42	0.28	.....	0.04	2.5	3	25	4	2	I. K. Huber.
Oketo.	Marshall.	1,194	5	24.6	.....	63	29	-21	8	41	0.63	-0.43	0.28	3.0	3	10	12	9	J. A. Church.
Olathe.	Johnson.	1,032	18	29.4	-0.4	59	29	-9	8	41	0.63	.....	0.25	5.0	2	24	7	0	Dr. S. B. S. Wilson.
Oskaloosa.	Jefferson.	991	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Ralph Snyder.
Ottawa.	Franklin.	926	19	29.2	.....	61	29	-10	12	47	0.20	-0.26	0.10	2.0	2	14	13	4	W. J. Sheldon.
Phillipsburg.	Phillips.	1,939	22	27.8	+0.8	71	29	-17	8	48	0.20	-0.34	0.10	2.0	2	22	6	3	N. E. Bailey.
Plainville.	Rooks.	2,156	7	29.2	.....	63	19†	-6	8	43	1.13	0.37	0.40	2.0	3	21	6	4	P. D. Spellman.
Pleasanton.	Linn.	862	11	33.6	+2.2	63	19†	-6	8	43	0.60	0.47	0.35	5.5	5	19	3	9	B. F. Blaker.
Quenemo.	Osage.	941	1	29.2	.....	61	29	-10	8	41	0.60	0.09	0.21	5.3	6	18	6	7	R. L. Graham.
Republic.	Republic.	1,495	10	25.9	.....	67	29	-26	8	45	0.60	0.40	0.40	6.0	3	13	13	5	J. W. Ambrose.
Russell.	Russell.	1,834	14	27.8	-2.4	70	29	-23	8	47	0.30	-0.44	0.20	5.0	2	18	5	8	Robert Brebner.
Russell Springs.	Logan.	3	.....	.....	.....	61	29	-14	8	45	0.49	-0.35	0.32	5.6	5	19	8	4	Murray Wallace.
St. Francis.	Cheyenne.	3,288	5	26.3	.....	68	29	-15	8	52	0.23	0.12	0.12	3.2	3	12	13	6	J. E. Uplinger.
Salina.	Saline.	1,227	29	28.6	-0.6	69	29	-28	8	44	0.61	-0.14	0.40	6.0	3	13	12	6	Prof. A. W. Jones.
Scott.	Scott.	2,971	7	29.2	.....	71	29	-11	8	51	0.31	0.31	0.21	7	1	23	2	6	J. B. Loughran.
Smith Center.	Smith.	1,800	3	24.8	.....	70	29	-24	8	49	0.17	0.09	0.09	3.0	2	20	7	4	W. H. Nelson.
Topeka.	Shawnee.	997	27	28.8	+3.2	65	29	-5	8	39	0.50	-0.43	0.36	5.3	4	13	13	5	U. S. Weather Bureau.
Tribune.	Greeley.	3,612	14	27.6	.....	64	29	-12	8	48	0.25	-0.15	0.25	2.5	1	13	9	9	Charles E. Cassel.
Valley Falls.	Jefferson.	913	14	27.8	+0.1	62	29	-14	8	45	0.49	-0.35	0.32	5.6	5	19	8	4	Miss Nettie Maxwell.
Vinland.	Douglas.	880	4	29.2	.....	61	29	-14	8	57	0.57	0.32	0.32	4.2	5	14	12	6	A. Schick.
Wakeeney.	Trego.	2,456	30	29.1	-0.1	70	29	-12	8	45	0.11	-0.47	0.08	2.0	2	22	3	6	A. S. Peacock.
Wallace.	Wallace.	3,303	43	30.0	.....	70	29	-8	6†	48	0.06	-0.18	0.06	3.0	1	15	4	12	J. L. Page.
Wamego.	Pottawatomie.	1,002	20	29.1	.....	67	29	-17	8	49	0.78	+0.05	0.70	7.0	2	12	8	11	M. L. Stone.
Missouri.																			
Amoret.	Bates.	850	4	32.2	.....	63	19	-3	8†	39	1.13	.....	0.30	T.	5	13	6	12	Darby Fruit Farm.
Appleton City.	St. Clair.	853	23	31.6	+0.1	66	18	1	8	37	1.75	-0.54	0.59	1.5	6	10	14	7	Robert Brown.
Arlington.	Phelps.	695	12	.....	.....	.....	.....	.....	4.58	+2.67	1.60	4.5	11	4	13	14	14	G. V. Randolph.	
Arthur.	Vernon.	767	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. T. Armstrong.	
Avalon.	Livingston.	28	28.2	+0.8	58	16	-8	12	38	0.60	-1.35	0.30	4.0	5	20	1*	9	sw.	
Bethany.	Harrison.	881	24	26.4*	+1.7	55	16†	-8	12	40	1.01	-0.47	0.36	7.0	4	12	8*	6*	F. G. Ashbaugh.
Boilvor.	Polk.	1,070	25	35.8	+1.4	68	19	4	12	42	0.66	-1.13	1.0	7	11	9	11	W. H. Skinner.	
Boonville.	Cooper.	600	37	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. C. Fink.	
Brunswick.	Chariton.	652	34	28.0	-0.5	61	16	-2	12	49	1.05	-0.66	0.25	5.0	9	13	3	15	C. Randecker.
Clinton.	Henry.	500	37	31.4	.....	66	19	1	21	52	1.31	-0.73	0.65	0.8	4	14	9	8	Louis Benecke.
Columbia.	Boone.	784	24	31.1	+3.9	64	19	2	12	35	2.57	+0.34	0.75	T.	9	8	10	13	A. E. Derwent, M. D.
Conception.	Nodaway.	982	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	U. S. Weather Bureau.	
Crocker.	Pulaski.	1,300	2	35.6	.....	70	19	5	12	45	3.45	.....	1.30	2.0	6	12	6	13	Fr. Adhelm Hess.
Eldon.	Miller.	1	33.4	.....	68	19	4	12	40	3.59	.....	1.46	0.9	5	7	14	10	Ira H. Stephens.	
Eldorado Springs.	Cedar.	750	7	35.2	.....	68	19	1	8	46	1.80	.....	0.88	1.0	5	12	6*	Samuel Graham.	
Fayette.	Howard.	725	29	29.1	+1.2	62	16	-2	12	35	1.91	-0.23	0.40	1.0	8	16	7	8	Prof. T. B. Smith.
Fulton.	Callaway.	818	22	31.6	+1.2	66	19	1	20	60	3.31	+0.72	1.52	0.50	5	12	7*	Russel Johnston.	
Glasgow.	Howard.	618	35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. J. Shaughnessy.	
Grant City.	Worth.	1,130	21	25.6	+1.6	55	16†	-10	12	39	0.97	+0.01	0.40	6.0	3	15*	4*	11*	W. H. Campbell.
Harrisonville.	Cass.	912	41	29.3	+2.0	61	16	-2	9	41	1.65	+0.08	0.50	2.8	7	12	5	14	A. J. Sharp.
Hazelhurst.	Livingston.	482	40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. H. Baker.	
Hermann.	Gasconade.	1,280	21	35.3	+0.8	66	19	4	12	42	7.25	+5.07	1.50	2.0	11	9	8	14	C. T. Maushund.
Houston.	Texas.	1,280	21	35.3	+0.8	66	19	4	12	42	7.25	+5.07	1.50	2.0	11	9	8	14	E. Dempsey.
Jefferson City.	Cole.	628	28	29.8	-0.6	68	19	1	12	47	3.26	+0.91	0.90	2.0	17	7	10	14	Miss Emma Swift.
Kansas City.	Jackson.	963	25	30.1	+3.9	60	29	-2	12	36	0.65	-0.48	0.32	4.1*	9	11	11	9	U. S. Weather Bureau.
Kidder.	Caldwell.	1,017	23	25.8	-0.4	55	25	-7	12	50	0.78	-0.57	0.30	6.0	5	20	4	7	J. F. Sharp.
Lamonte.	Pettis.	863	25	32.4	.....	63	19	-1	8	41	2.47	+0.67	0.75	2.0	6	12	10	9	J. Ed. Hall.
Lebanon.	Laclede.	1,265	25	35.0	+1.4	67	19	4	12	50	4.06	+1.57	1.36	T.	7	13	6	12	M. W. Serl.
Lexington.	Lafayette.	813	32	29.3															

TABLE 2.—*Daily precipitation for January, 1913. District No. 6, Missouri Valley.*

TABLE 2.—*Daily precipitation for January, 1913. District No. 6—Continued.*

TABLE 2.—*Daily precipitation for January, 1913. District No. 6—Continued.*

Stations.	Watershed.	Day of month.																													Total.					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
<i>North Dakota—Con.</i>																																				
New England.	Cannon Ball			T.						T.	.30																							0.50		
New Rockford.	James.			T.							.10																							0.50		
New Salem.	Heart.										.20																							0.40		
Orange.	Cannon Ball										.10																							0.10		
Ranger.	L'le Missouri										.30																							0.45		
Steels.	Missouri.										.10																							0.29		
Turtle Lake.	do.										.20																							0.30		
Washburn.	do.										.08																							0.23		
Williston.	do.	T.		T.							.01																							0.52		
<i>South Dakota.</i>																																				
Aberdeen.	James.																																		0.55	
Academy.	Missouri.			.06							.02																							0.11		
Alexandria.	James.										T.																								T.	
Armour.	Missouri.										.03																								0.54	
Bellefourche.	Cheyenne.			.32	.05						T.																								0.02	
Brookings.	Big Sioux.										T.																								T.	
Bryant.	do.										.06																								T.	
Camp Crook.	L. Missouri			1.80	.01						T.																							2.02		
Canton.	Big Sioux.										.15																								T.	
Cascade Springs.	Cheyenne.																																			.01
Castlewood.	Big Sioux.																																			0.16
Centerville.	Missouri.										.02																								0.09	
Clark.	James.										T.																								T.	
Cottonwood.	Missouri.			T.	T.	.13					T.																							T.		
Custer.	Cheyenne.			.20	.10						T.																								0.30	
Deadwood.	do.			.10	1.00	.10					T.																								2.05	
Deerfield.	do.			.03	.01	.27	.43	T.			T.																								0.82	
De Smet.	James.										T.																									T.
Dowling.	Cheyenne.			.30	.10						T.																									0.65
Dumont.	do.			.17	.17	.96	.38																												3.70	
Eagle Butte.	Grand.			T.																																0.22
Eales.	Missouri.										.05	T.																								0.29
Elk Mountain.	Cheyenne.			.05	.40																														0.50	
Englewood.	do.																																			1.81
Eureka.	Missouri.																																			0.10
Fairfax.	do.																																			0.36
Faulkton.	James.																																			0.05
Flandreau.	Big Sioux.			T.																																0.05
Forestburg.	James.																																			T.
Fort Meade.	Cheyenne.			.40	.30																														0.95	
Frederick.	James.																																			0.07
Gann Valley.	Missouri.																																			T.
Greenmont.	Cheyenne.			.19	.10	.90	.90																											0.21		
Greenwood.	Missouri.																																			0.30
Hartington.	Cheyenne.			*	.21						T.																								0.25	
Hardy Ranger Sta.	do.			.21	.02	.54	.11	T.			T.																							2.16		
Harveys Ranch.	do.			.65	.46	.20																												2.90		
Hermosa.	do.																																			0.24
Hightower.	do.																																			0.05
Hopewell.	Missouri.																																			0.10
Howard.	Missouri.																																			0.02
Howell.	James.																																			0.05
Huron.	do.																																			0.03
Ipswich.	do.																																			0.22
Kadoka.	White.			T.	.07	T.																													0.11	
Kennebee.	Missouri.																																			0.05
Kimball.	do.																																			T.
La Delle.	James.			.08	.57	.10																												0.10		
Lead.	Cheyenne.																																			0.10
Leaven.	do.																																			0.17
Marion.	Missouri.																																			1.35
Marston.	do.																																			0.30
Meadow.	Owl.																																			

TABLE 2.—*Daily precipitation for January, 1913. District No. 6—Continued.*

TABLE 2.—*Daily precipitation for January, 1913. District No. 6—Continued.*

Stations.	Watershed.	Day of month.																														Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<i>Nebraska—Contd.</i>																																		
Genoa	Loup.			.08	.04	T.	.08																											T. 0.25
Gordon	Niobrara.	.30			.20																													T. 0.40
Gosper	Republican			.20	T.																													T. 0.20
Gothenburg	Platte.			.20																														T. 0.30
Grand Island |||	do			.05	.02			.33	.08																								T. 0.41	
Grant	Republican			.02	.25			.04																									T. 0.07	
Greeley	Loup.			.15				.30																									T. 0.40	
Guide Rock	Republican			.40				.05																									T. 0.45	
Haigner	Loup.			.02	.01	.03	T.																										T. 0.45	
Halsey	Missouri.			.05	.02			T.	.19																								T. 0.45	
Hartington	Blue.			.20	T.																													T. 0.51
Harvard	do			.05	.20			.10																									.02 0.47	
Hastings |||				*	.40			.10																									.05 0.65	
Hayes Center	Republican			T.	.15			.20																									.10 0.55	
Hay Springs	White.			T.	.15			.10																									.04 0.40	
Hebron	Blue.			T.				.10																									.04 0.45	
Hemingford |||	Niobrara.			.01				.01																									.04 0.45	
Hendley |||	Republican			.40				.01																									.04 0.45	
Hershey |||	South Platte			.05	.02																												.04 0.45	
Hillsdale	North Platte			.01	T.	.10																											.04 0.45	
Holbridge |||	Republican			.05	.20																												.04 0.45	
Hooper	Elkhorn.			.20	.40																												.04 0.45	
Hull (near) |||	North Platte			T.	.14																												.04 0.45	
Imperial	Republican			.05	.10																												.04 0.45	
Kearney	Platte.							.21	.10																								.04 0.45	
Kimball |||	South Platte	T.	.10																														.04 0.45	
Kirkwood	Niobrara.			.20																													.04 0.45	
Kowanda |||	North Platte	T.	.04																														.04 0.45	
Lexington	Platte.			.15																													.04 0.45	
Lincoln	do			T.	.08	.07	.12																									.04 0.45		
Lodgepole	South Platte			T.	.10																												.04 0.45	
Loup City	Loup.			do																													.04 0.45	
McCook	Republican																																.04 0.45	
McCool Junction |||	Blue.																																.04 0.45	
Madison	Elkhorn.			.20	.10	.10	T.																									.04 0.45		
Marquette	Blue.			T.	.10			.10																								.04 0.45		
Mary	Loup.			T.	.10			.05																								.04 0.45		
Mason City |||	do			.05	.05			.30																								.04 0.45		
Minatare	North Platte			.50																													.04 0.45	
Minden	Blue.							.18	.03	T.																						.04 0.45		
Mitchell	North Platte	T.	.02	.02	.01																											.04 0.45		
Nebraska City	Missouri.																																.04 0.45	
Nelson	Blue.																																.04 0.45	
Norfolk	Elkhorn.			.18	.04			T.																								.04 0.45		
North Loup	Loup.							.15	T.	.02																						.04 0.45		
North Platte	Platte.			.01	.15																											.04 0.45		
Oakdale |||	Elkhorn.			.10	.05			.03																								.04 0.45		
Omaha	Missouri.			.04	.08	.19	.08	.26																								.04 0.45		
O'Neill	Elkhorn.			.05																													.04 0.45	
Ord	Loup.																																.04 0.45	
Orleans |||	Republican																																.04 0.45	
Osceola	Blue.																																.04 0.45	
Palisade	Republican																																.04 0.45	
Palmyra	Missouri.																																.04 0.45	
Pawnee City	do																																.04 0.45	
Paxton	South Platte																																.04 0.45	
Plymouth |||	Blue.																																.04 0.45	
Purdum	Loup.			.02	T.	.05		.09																								.04 0.45		
Ravenna	do							.20	.05																							.04 0.45		
Red Cloud	Republican							T.	.07	.10	.14																				.04 0.45			
St. Libby	Platte.							.30	.20																							.04 0.45		
St. Paul	Loup.																																.04 0.45	
Fantee	Missouri.							T.	.23	.13	.13				</																			

TABLE 2.—*Daily precipitation for January, 1913. District No. 6—Continued.*

Stations.	Watershed.	Day of month.																														Total					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
<i>Iowa—Continued.</i>																																					
Council Bluffs	Missouri				.20	.30	.10	.40																										1.20			
Creston	do				.18	.03	.10	.18																										.80			
Cumberland	Nodaway				.40	.10	.20	.30																										.90			
Demison	Missouri				.10	.20	.20																											.50			
Elliott	Nishnabotna			*	*	*	*	1.05																										1.05			
Greenfield	Nodaway				.25	.20	.05	.60																										1.18			
Harlan	Nishnabotna	T.		.16	T.	.20	.21																											.64			
Inwood	Big Sioux				.01																														.11		
Lake Park	Little Sioux				.12		.12	.30																										.54			
Lemoni	Grand																																				
Larrabee	Little Sioux																																				
Le Mars	Floyd	T.		.01	.01	.02																														.04	
Lenox	Missouri			.10	.02	.05	.60																												.83		
Leon	Grand			.30	.06	.07																													.68		
Little Sioux	Missouri			.20	.47		.17																												.84		
Logan	Grand																																				
Mount Ayr	do																																				.55
Murray	Missouri			.15	.01	.02	.13																												.63		
Northboro	do			.06	.22	.02																													.37		
Odebolt	Little Sioux			.04	.10	.08																													.22		
Onawa	Missouri			.20	.40	T.	.10	T.																										.70			
Pacific Junction	do			.10	.06	T.	.44	T.																										.65			
Rock Rapids	Big Sioux																																				.06
Sheldon	Floyd																																				.47
Sibley	Big Sioux																																				.25
Sioux Center	Floyd																																				.25
Sioux City	Missouri			.07	.03	.05	.05																												.21		
Spencer	Little Sioux																																				.25
Thurman	Missouri																																				.54
Washta	Little Sioux																																				.15
<i>Kansas.</i>																																					
Abilene	Smoky Hill																																				.14
Agricultural College	Kansas																																				.75
Alton	do																																				.25
Atchison	Solomon																																				.47
Beloit	do																																				.17
Blakeman	Solomon																																				.03
Blue Rapids	Republican																																				.75
Centralia	Blue																																				.90
Chapman	Smoky Hill																																				
Clay Center	Republican																																				.60
Colby	do																																				.65
Concordia	do																																				.55
Densmore	Solomon																																				.10
Dresden	Republican																																				.35
Ellsworth	Smoky Hill																																				.61
Emmett	Kansas																																				.45
Enterprise	Smoky Hill																																				.27
Eskridge	Osage																																				.39
Farnsworth	Smoky Hill																																				.23
Fort Scott	Osage																																				.54
Frankfort	Blue																																				.60
Garnett	Osage																																				.98
Goodland	Republican																																				.50
Hanover	Blue																																				.20
Harrison	Republican																																				.78
Hays	Smoky Hill																																				.36
Hill City	Solomon																																				.20
Horton	Kansas																																				.59
Hoxie	Solomon																																				.46
Lawrence	Kansas																																				

TABLE 2.—*Daily precipitation for January, 1913. District No. 6—Continued.*

Stations.	Watershed.	Day of month.																														Total					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
<i>Missouri.</i>																																					
Amoret.....	Osage.....			T.	T.						.21	.22																						T.	1.13		
Appleton City.....	do.....					.15					.50	.12																							1.75		
Arlington.....	Gasconade.....						.10	.25			.15	.90	.30																					4.58			
Arthur.....	Osage.....																																			0.60	
Avalon.....	Grand.....			.05	.05	.30																													1.01		
Bethany.....	do.....					.27	.28	.10																											2.66		
Bolivar.....	Osage.....						.10					.46	.10																						2.19		
Boonville [I].....	Missouri.....							.04	.41	.15																									1.05		
Brunswick [II].....	Grand.....						.05	.10	.18	.20																								1.31			
Clinton.....	Osage.....										.08																									2.57	
Columbia.....	Missouri.....										.08	.20	.16																						3.45		
Conception.....	do.....																																				3.45
Crocker.....	Gasconade.....																																				3.45
Eldon.....	Osage.....																																				3.59
Eldorado Springs.....	do.....																																				1.80
Fayette.....	Missouri.....																																				1.91
Fulton.....	do.....																																				3.31
Glasgow [II].....	T.....																																				0.87
Grant City.....	Grand.....																																				0.97
Harrisonville [II].....	Osage.....																																				1.65
Hazelhurst.....	Grand.....																																				0.76
Hermann [II].....	Missouri.....																																				3.55
Houston.....	Gasconade.....																																				7.25
Jefferson City.....	Missouri.....																																				3.26
Kansas City.....	do.....																																				0.65
Kidder [II].....	Grand.....																																				0.78
Lamonte.....	Missouri.....																																				2.47
Lebanon.....	Osage.....																																				4.06
Lexington [II].....	Missouri.....																																				0.82
Liberty.....	do.....																																				0.36
Lockwood.....	Osage.....																																				1.33
Marshall.....	Missouri.....																																				0.69
Maryville [II].....	do.....																																				3.70
Mount Vernon.....	Osage.....																																				0.74
Nevada.....	do.....																																				0.63
Oregon.....	Missouri.....																																				4.92
Pattonsburg [II].....	Grand.....																																				0.55
Rolla.....	Gasconade.....																																				4.34
St. Charles.....	Missouri.....																																				4.89
St. Joseph.....	do.....																																				0.68
St. Louis (1).....	Mississippi.....																																				0.70
St. Louis (2).....	do.....																																				0.67
Sublett.....	Chariton.....																																				1.30
Tarkio.....	Missouri.....																																				1.06
Trenton.....	Grand.....																																				3.70
Unionville [II].....	Chariton.....																																				2.59
Warrensburg.....	Missouri.....																																				2.59
Warrenton [II].....	do.....																																				3.70
Warsaw.....	Osage.....																																				2.59
Wheatland.....	do.....																																				....

* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

|| Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures at selected stations for January, 1913. District No. 6, Missouri Valley.

Date.	Wyoming.														Montana.													
	Basin.		Cheyenne.		Fort Laramie.		Lander.		Newcastle.		Pathfinder.		Sheridan.		Yellowstone Park.		Billings.		Dillon.		Havre.		Helena.		Lewis-town.		Malta.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	38	0	27	13	43	23	29	7	38	10	30	17	36	8	21	9	34	20	37	4	35	14	28	19	35	12	40	16
2....	30	6	37	13	47	10	47	6	38	5	32	10	52	8	27	11	52	8	39	20	44	22	46	21	35	9	40	10
3....	47	12	44	33	48	14	48	17	38	20	40	28	51	17	32	6	27	20	41	23	27	18	45	15	28	0	36	21
4....	40	10	33	-2	17	12	17	-4	20	4	37	1	17	-19	10	-14	16	-10	33	18	18	-20	15	-4	20	-2	24	-5
5....	24	-14	-2	-11	0	-4	-4	-14	4	-10	1	-9	-4	-32	-5	-28	-4	-28	15	-12	-7	-32	2	-11	1	-26	-5	-26
6....	16	-26	-6	-26	-3	-25	-3	-24	-6	-26	-4	-20	-6	-34	-5	-32	5	-29	10	-16	16	-36	10	-14	7	-26	3	-30
7....	24	-20	14	-20	15	-40	3	-26	5	-21	4	-12	6	-31	3	-7	18	-2	18	-4	32	-20	26	2	34	-24	20	-20
8....	28	-7	38	14	46	-20	18	-9	36	-1	25	2	28	-5	22	2	38	15	33	8	36	4	32	17	36	-6	40	2
9....	30	2	44	13	34	7	27	5	34	15	31	19	26	4	21	2	24	1	38	16	5	-12	20	-4	2	3	29	-11
10....	31	-2	34	9	26	14	29	1	30	0	26	19	4	-20	16	-5	6	-3	39	19	-9	-12	2	-9	-2	-12	-2	-14
11....	34	3	22	6	35	-9	23	-5	15	-10	18	3	-6	-21	14	7	-3	-7	37	20	-8	-22	1	-5	-5	-9	-6	-22
12....	33	-17	53	11	42	2	39	1	15	-10	28	12	6	-19	24	2	0	-10	36	12	-8	-28	-3	-14	27	-13	-4	-25
13....	34	8	31	9	40	-1	42	3	20	-20	25	10	26	-25	32	1	23	-28	36	14	7	-20	39	-26	9	-32		
14....	46	24	54	26	57	29	45	29	44	20	39	15	37	11	31	27	47	11	38	17	36	-2	40	15	41	24	28	
15....	44	20	49	26	59	25	45	25	50	24	40	27	49	9	31	25	33	12	39	18	1	-5	43	10	37	15	14	-2
21....	45	19	46	21	48	9	37	9	34	10	32	12	38	11	22	12	39	21	34	11	21	4	31	21	32	12	23	-9
22....	42	12	49	19	55	19	40	19	42	20	35	22	35	11	30	5	32	17	39	14	21	-17	32	20	27	17	18	-9
23....	40	5	31	13	43	3	34	3	34	8	33	10	28	0	17	0	37	4	39	10	28	-20	32	17	43	-3	12	-27
24....	40	7	39	25	47	11	37	11	34	10	29	14	45	10	23	13	42	20	36	12	42	24	46	27	43	35	40	-5
25....	41	10	44	33	56	19	53	19	44	24	43	24	54	25	36	23	50	30	37	11	40	34	48	37	36	20	42	24
Mns.	38.5	9.3	34.9	13.8	40.9	10.5	33.9	7.3	30.7	6.6	30.5	12.5	30.1	-1.3	22.0	5.0	28.0	5.5	35.2	11.9	18.2	-4.4	29.2	9.9	26.2	0.6	20.1	-6.0
Date.	Montana.				North Dakota.								South Dakota.															
	Miles City.		Poplar.		Berthold Agency.	Bismarck.	Dickinson.	James-town.	Williston.	Aberdeen.	Huron.	Kadoka.	Kimball.	Lemmon.	Pierre.	Rapid City.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	39	24	36	19	35	16	36	14	32	21	34	11	43	18	46	23	41	23	45	25	.....	.....	45	25	37	20		
2....	44	18	36	10	32	0	31	6	33	24	8	34	8	28	10	31	11	37	10	32	10	.....	37	15	49	14		
3....	34	23	34	20	30	19	32	11	29	18	23	14	33	12	24	8	32	20	37	20	33	17	33	23	35	18		
4....	18	-8	21	-7	20	-10	11	-9	20	-3	10	-2	13	-15	22	3	23	-3	20	-1	30	5	.....	24	0	19	-2	
5....	-8	-34	2	-28	-5	-23	-9	-19	4	-20	2	-19	-9	-21	-8	-17	-3	-9	10	-8	8	-7	38	-16	0	-6	-2	-20
6....	-9	-33	11	-25	3	-21	14	-25	-4	-26	5	-24	0	-24	-1	-20	-4	-24	0	-18	40	-20	0	-16	-3	-22		
7....	7	-30	24	-18	19	-13	12	-14	21	-18	10	-27	19	-10	10	-22	10	-11	3	-20	11	-10	38	-17	-1	-14	12	-19
8....	25	-3	24	-6	37	-1	28	-5	40	0	19	-18	32	4	19	-28	12	-32	3	-27	13	38	11	29	-12	31	-3	
9....	26	8	25	-1	30	2	15	-4	22	4	15	-7	28	-3	32	-1	32	15	32	18	35	11	40	12	28	11	38	15
10....	10	-6	0	-7	4	-9	-4	-15	9	-8	-2	-7	-4	-14	4	-2	15	-3	19	-5	20	4	43	-11	11	-2	15	-4
11....	-7	-11	-5	-30	-5	-29	-15	-29	-4	-30	-14	-20	-14	-28	0	-17	-3	-11	-5	-19	5	-14	35	-22	-2	-12	-3	-17
12....	-2	-16	-8	-32	-11	-43	-7	-37	-8	-33	-11	-36	-8	-35	5	-23	-8	-14	-3	-18	7	-17	32	-15	-2	-18	6	-2
13....	3	-22	11	-29	4	-31	5	-24	8	-28	5	-33	12	-26	19	-18	9	-12	35	-17	7	-12	25	-19	32	-11	47	-17
14....	28	0	20	-4	20	-1	20	2	30	-3	20	-17	20	1	35	-16	39	9	56	56	32	42	1	40	-12	47	19	55
15....	28	12	16	-3	19	2	23	2	30	7	23	-3	14	-1	33	10	42	16	53	30	52	23	43	15	47	24	31	
16....	10	-1	5	-4	18	-2	15	-1	19	0	17	-2	13	-9	30	7	48	11	56	10	56	19	43	0	50	8	50	4
17....	2	-17	-1	-24	1	-20	-1	-14	5	-18	20	-10	-4	-22	10	-5	11	-2	10	7	40	4	38	-8	9	-1	12	-1
18....	31	-10	25	-16	17	-15	12	-13	23	-12	12	-18	24	-11	20	-23	30	-10	54	-4	43	10	40	-12	39	-4	51	1
19....	-7	-17	0	-24	14	-17	3	-16	27	-19	6	-22	-9	-21	3	-16	28	-6	32	0	40	3	42	-13	39	-3	22	-4
20....	8	-25	6	-30	-2	-29	5	-23	6	-30	17	-28	10	-30	16	-25	7	-14	26	-15	10	-16	40	-24	20	-14	37	-11
21....	36	6	1	-36	26	-5	25	1	30	4	11	-26	20	-6	33	-22	38	7	39	18	41	2	37	-22	42	16	36	22
22....	27	10	28	-4	30	-4	30	5	30	10	23	-15	31	-2	48	17	45	24	49	18	38	11	33	25	45	22		
23....	14	-5	17	-24	20	-17	19	-11	20	-15	19	-6	11	-18	9	-9	22	1	40	10	39	13	29	12	32	13	37	14
24....	38	7	17	-6	25	-4	22	13	32	8	20	-5	36	-4	46	10	46	20	47	10	38	13	45	17	45	25		
25....	47	32	41	2	40	-1	41	11	40	21	37	-2	39	8	45	1	56	20	48	22	58	32	33	15	57	37	55	
26....	42	35	40	20	37	10	31	9	37	26	24	0																

TABLE 3.—Maximum and minimum temperatures at selected stations for January, 1913. District No. 6—Continued.

Date.	South Dakota.					Colorado.					Nebraska.																		
	Sioux Falls.		Watertown. ^{§§}		Yankton.	Denver.		Wray.		Alma.		Bridgeport.		Grand Island. ^{§§}		Hay Springs.		Hebron.		Lincoln.		North Platte.		Oakdale.		Omaha.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.			
1.....	50	25	42	21	49	27	38	21	40	25	50	17	41	19	51	32	37	18	49	28	48	32	46	22	49	27	43	32	
2.....	37	12	25	11	30	17	48	23	49	12	40	10	45	8	41	17	42	9	40	21	34	21	44	12	30	17	32	22	
3.....	33	9	25	11	36	24	58	40	50	32	50	24	52	38	46	31	42	28	44	22	43	24	45	25	38	21	40	21	
4.....	34	10	24	4	26	4	40	8	49	16	24	21	50	13	24	22	28	5	38	22	29	19	25	9	21	6	27	18	
5.....	20	-5	-4	-12	4	-3	9	-16	16	-1	22	0	21	-3	-2	-2	7	-6	22	4	22	3	9	-3	6	-8	21	2	
6.....	0	-13	0	-19	2	-11	-8	-21	1	-18	0	-7	7	-20	11	-10	5	-21	4	-4	3	-4	4	-14	-4	-12	2	-4	
7.....	10	3	11	-19	12	0	21	-18	9	-17	10	-7	8	-26	8	-3	35	-26	8	-2	8	1	9	-9	6	-12	7	0	
8.....	20	-6	25	-12	23	-5	41	12	37	-11	22	-24	40	-10	20	-10	35	-11	15	-25	14	-11	32	-9	18	-20	14	-3	
9.....	37	10	32	-11	27	11	44	14	42	-2	22	5	38	0	26	6	32	7	29	2	28	8	30	3	22	2	26	8	
10.....	22	0	10	2	16	6	29	8	22	-2	21	-4	27	12	18	6	22	10	25	15	28	6	22	10	16	-3	34	14	
11.....	3	-8	-2	-15	6	-7	29	6	27	2	12	-7	20	-8	8	-4	13	-15	15	-1	15	-7	12	-1	2	-12	14	-1	
12.....	7	-12	4	-18	8	-11	42	3	35	0	15	-16	42	0	12	-6	35	-15	10	-10	15	-12	12	-11	22	-4	9	-17	8
13.....	18	-2	16	-18	10	-4	41	22	29	2	12	-4	31	5	16	-2	35	-12	10	-1	11	0	15	-3	5	-4	10	3	
14.....	33	0	31	-14	34	7	57	34	49	12	43	-2	41	13	37	12	50	19	36	-2	39	2	39	11	32	-2	36	3	
15.....	48	14	43	11	48	19	55	38	42	19	50	12	54	15	49	17	51	22	45	29	31	17	46	12	45	35			
16.....	46	23	50	22	53	16	44	28	53	26	59	20	50	15	55	33	48	19	51	30	51	32	56	16	48	22	50	34	
17.....	38	-5	10	-1	24	6	40	28	42	19	50	12	38	17	36	15	32	15	42	19	42	18	42	15	30	10	36	17	
18.....	30	-5	20	-15	40	0	57	27	55	17	48	2	57	11	44	12	54	11	43	13	39	9	49	14	38	0	33	10	
19.....	10	-4	4	-15	41	0	46	21	41	26	24	20	48	13	24	22	30	7	40	23	41	13	32	16	25	3	36	14	
20.....	22	-10	21	-17	15	-6	31	9	34	6	28	5	33	-2	20	2	28	-7	23	5	13	2	31	3	16	-3	14	1	
Mns..	31.4	6.7	23.3	-3.1	31.5	8.6	42.1	18.6	40.8	13.0	36.5	8.8	42.5	10.5	33.0	14.5	37.4	8.3	35.6	13.9	34.4	13.6	36.7	10.7	29.1	6.5	32.6	14.9	

Date.	Iowa.					Kansas.								Missouri.												
	Valentine, Nebr.		Clarinda. ^{§§}		Sibley. ^{§§}	Sioux City.		Colby.		Concordia.		Salina.		Topeka.		Wakeeney.		Columbia.		Kansas City.		St. Louis.		Union- ville. ^{§§}		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1.....	41	22	47	20	47	25	49	30	43	23	49	31	52	29	49	34	46	23	50	31	50	36	55	35	50	26
2.....	38	7	31	12	25	14	31	18	46	12	40	20	43	19	40	24	44	15	38	24	37	25	46	28	30	24
3.....	36	19	42	17	31	11	35	20	60	25	52	39	56	22	50	27	59	24	42	20	49	25	41	25	29	17
4.....	21	0	25	9	27	7	24	12	52	16	40	19	42	27	34	20	42	20	36	21	37	19	38	22	25	15
5.....	0	-10	15	9	0	-4	12	-1	16	1	23	3	30	9	22	8	21	1	23	20	21	10	32	22	19	14
6.....	3	-19	5	-2	1	-12	2	-8	12	-9	3	-2	9	0	8	4	3	-6	20	11	10	6	28	19	5	3
7.....	10	-13	10	0	8	-12	7	-3	9	-8	4	-4	9	0	10	5	10	-2	20	11	12	12	32	20	12	0
8.....	38	-11	13	-12	15	-11	13	-10	28	-9	16	-13	15	-28	15	-5	30	-12	24	9	20	1	25	16	10	-1
9.....	34	10	26	-13	22	-4	24	7	33	-1	1	30	10	30	6	28	5	33	7	32	14	29	10	29	22	
10.....	12	-2	35	1	16	-4	18	3	25	0	32	11	36	20	37	23	27	4	38	22	36	20	39	24	34	
11.....	5	-12	7	3	4	-6	8	-5	21	0	14	-3	22	5	23	2	18	-1	38	8	36	5	40	15	23	22
12.....	27	-15	5	-15	6	-4	9	26	-5	14	-10	19	-12	17	-3	22	-8	20	2	17	-2	21	7	10	-10	
13.....	28	-11	15	-15	11	-14	9	0	21	5	14	4	17	9	18	6	25	5	32	12	21	11	38	19	12	-12
14.....	44	22	39	-7	26	-3	29	3	45	10	40	3	40	-4	42	3	49	4	43	11	44	8	40	18	38	-6
15.....	56	26	47	1	49	11	43	26	48	22	50	34	58	36	40	64	30	56	42	57	42	53	34	48	3	
16.....	57	10	53	30	43	18	47	21	54	30	55	40	56	36	58	44	63	33	60	50	60	48	60	55	36	
17.....	44	1	35	21	24	3	23	10	47	19	45	24	52	27	53	32	58	23	59	35	56	32	60	55	42	32
18.....	46	1	35	10	31	-8	30	2	51	20	45	18	49	17	41	22	50	18	38	26	42	22	56	36	36	20
19.....	41	-3	41	10	15	-9	35	6	44	28	41	18	46	29	48	23	44	25	64	35	52	27	64	35	22	
20.....	29	-10	12	5	17	-8	8	-4	32	10	21	8	30	11	23	10	30	10	35	12	27	13	60	17	13	
21.....	44	19	41	0	43	-7	41	6	59	15	48	16	48	9	43	10	52	10	32	10	39	12	33	14	35	3
22.....	53	25	43	10	41	15	41	22	52	19	46	24	45	25	38	24	57	15	37	23	40	26	34	26	32	
23.....	38	15	42	20	21	13	34	12	42	17	40	21	45	31	42	29	48	26	42	30	42	31	48	34	40	22</td